

Volume

#

R0329

BOOK 329

Payson T R

INDEX DIAGRAM.

Township 11 S., Range 1 E.

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

BOOK 329

Payson FL

INDEX DIAGRAM.

Township 12 S., Range 1 E

1	2	3	4	5	6	7
		14	11	8	2	1
		17				
	3	17	18	10	10	12
	16	17				
12	17	19		10	14	13
	15	20	15			
18	14	21	9	18	25	24
	13	12	20	21	21	22
26	26	26	27	28	26	23
						23
31	32	33	34	35	36	24
						24

Meanders Page.....

BOOK 329

Payson RR
INDEX DIAGRAM.

Township 2 S., Range 3 E.

6	5	4	40	3	1
			40		
7	8	9	39	10	12
			39		
18	17	16	38 38	15	13
			37		
35 35	36				
19	20	21		22	24
29	28	27		26	25
31	32	33	34	35	30

Meanders Page.....

10

PRELIMINARY OATHS OF ASSISTANTS.

We, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of our office as _____
of the _____

[Handwritten signature]

9180

Director

Utah State Director

Payson Forest Reserve Boundary in T. 11 S., R. 3 E., Salt Lake Meridian, Utah

In accordance with a request from the U. S. Forest Service by letter 5490 dated April 21, 1967, copy enclosed, action has been taken by this office to clarify the correct position of the Payson Forest Reserve boundary through T. 11 S., R. 3 E., Salt Lake Meridian, Utah.

The Payson Forest Reserve boundary was surveyed by J. P. Walker in 1904 as the 3rd meridional line through T. 11 S., R. 3 E., as shown on plat approved June 12, 1906. In 1916 Howard W. Miller and Lyman E. Bolinger subdivided the township, established new corners along the 3rd meridional line and preserved the forest boundary as provided by the special instructions and is shown on the plat approved March 6, 1920.

Patents were subsequently issued, based upon the plat approved March 6, 1920, recognizing the 3rd meridional line shown thereon as the forest boundary.

In view of these findings and at the request of the U. S. Forest Service, mile posts 37 through 43, established in 1904, have been removed. The records in this office have been noted accordingly.

Enclosure

IS/ R. D. NIELSON

cc: U.S.F.S.
L.O.

Notarize

RECEIVED
JUN 15 1968
U.S. FOREST SERVICE
SALT LAKE CITY, UTAH

Subscribed and sworn to before me this _____
day of _____, 190____



BOOK 329

Payson FR

INDEX DIAGRAM.

Township 11 S., Range 3 E.

6	5	4	45	3	2	1
7	8	9	44	10	11	12
18	17	16	43	15	14	13
19	20	21	43	22	23	24
30	29	28	42	27	26	25
31	32	33	41	34	35	36

Meanders Page.....

FOREST BOUNDARY MILEPOSTS REMOVED

MP 37 through 43, established in 1904, have been removed. (See State Director's letter 6/5/67 on opposite page).

BOOK 329

Payson FR
INDEX DIAGRAM.

Township 10 S., Range 3 E.

6	5	4	3	2	1
		51			
7	8	9	10	11	12
		50			
16	17	16	15	14	13
		50			
19	20	21	22	23	24
		49	48		
26	29	28	27	26	25
		48	48		
31	32	33	34	35	36
		48			

Meanders Page.....

BOOK 329

Payson FR

INDEX DIAGRAM.

Township 10 S., Range 2 E.

62 6	5	4	3	2	1
63					
63 7	8	9	10	11	12
63					
64 16	17	18	15	14	13
64 65 65					
66 19	20	21	22	23	24
67 30	29	28	27	26	25
67					
69 31	32	33	34	35	36

Meanders Page.....

BOOK 329

INDEX DIAGRAM.

Township 11 N., Range 2 E.

6	5	4	3	2	1
7	8	9	10	11	12
13	17	16	15	14	13
83					
19	84	20	21	22	23
24	85	25	26	27	28
29	86	30	31	32	33
34	87	35	36	37	38
39	90	40	41	42	43

Meanders Page.....

93

T. 10 N.
R. 3 E.

1H

1I

Does Not
exist

BOOK 329

INDEX DIAGRAM.

Township 11 N., Range 4 E.

6	5	4 106 106 105	3	2	1
7	8	105	10	11	12
16	17	104 103	15	14	13
19	20	103 102	22	23	24
26	29	28	27	26	25
31	32	33	34	35	30

Meanders Page.....

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PAGE

BOOK 329

INDEX DIAGRAM.

Township 12 N., Range 4 E.

6	5	4	3	2	1	113
7	8	9	10	11	12	114
16	17	18	15	14	13	115
19	20	21	22	23	24	112
						112
26	29	28	27	26	25	111
						110
31	32	33	34	35	36	109 110
						109
						109
						107 107 108 108

Meanders Page.....

1K

BOOK 329

INDEX DIAGRAM.

Township 13 N., Range 2 E.

136 135 134 134 133 133					
137 6	5	4	3	2	1
137					
138 7	8	9	10	11	12
138					
138 142 18	17	16	15	14	13
139 142					
141 19	20	21	22	23	24
141 25	26	27	28	29	30
144					
141 31 143 32	33	34	35	36	
140 140					

Meanders Page.....

BOOK 329

INDEX DIAGRAM.

Township 12 N, Range 2 E

144					
145					
146					
148 147					
147					
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

Meanders Page.....

BOOK 329

FIELD NOTES

OF THE SURVEY OF THE

Payson Forest Reserve Boundary,

Utah.

Of the Salt Lake Base and Meridian,

AS SURVEYED BY

Jno. P. Walker, United States ~~Deputy~~ Surveyor,orders ~~Contract No.~~, dated June 24, 1904.

Commenced October 3, 1904.

Completed November 15, 1904.

NAMES AND DUTIES OF ASSISTANTS

P. S. Darlington

Chairman

J. J. Elliot

Lon Tidwell

Houseman

James Painter

Axeman & Flagman

M. Devalson Allen

Flagman

Harry Irons

Axeman

June Kendall

6-151

Volume

#

R0329

PRELIMINARY OATHS OF ASSISTANTS

[illegible]

We, June Randall and James A. Christensen, do solemnly swear that we will well and faithfully execute the duties of assistants; that we will keep the chain upon even and unbroken ground, and plumb the tally pole, either by sticking or dropping the chain; we will report the true distances for all visible objects, and the true lengths of all lines that we are measuring, to the best of our skill and ability, and to the satisfaction of the surveyor given us, in the

Survey of the Public Lands, which, embodied in these field notes, as surveyed by T. H. Joy.

Subscribed and sworn to before me this

day of June

1900

We, J. A. Christensen, do solemnly swear that we will well and faithfully execute the duties of assistants, by the means of chains, according to the instructions given us, to the best of our skill and ability, in the

Survey of the Public Lands, which, embodied in these field notes, as surveyed by T. H. Joy.

Subscribed and sworn to before me this

day of June

1900

We, J. A. Christensen, do solemnly swear that we will well and faithfully execute the duties of assistants, by the means of chains, according to the instructions given us, to the best of our skill and ability, in the

Survey of the Public Lands, which, embodied in these field notes, as surveyed by T. H. Joy.

Subscribed and sworn to before me this

day of June

1900

I, T. H. Joy, do solemnly swear that I will well and faithfully perform the duties of surveyor according to instructions given me, to the best of my skill and ability, in the survey of the Public Lands, which, embodied in these field notes, as surveyed by T. H. Joy.

Subscribed and sworn to before me this

day of June

1900

T. H. Joy

PRELIMINARY OATHS OF ASSISTANTS.

1 p
 WE, P. S. Darlington and J. J. Elliot
 do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will
 chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same
 we will report the true distances to all notable objects, and the true lengths of all lines that we
 measuring, to the best of our skill and ability, and in accordance with instructions given us, in the

Payson Forest Reserve Boundary

(Signed) P. S. Darlington Chain
J. J. Elliot Chain

Subscribed and sworn to before me this 5th
 day of October, 1904.

Jno. P. Walker,
U. S. Surveyor.



I
 WE, Lon Tidwell ~~xxx~~
 do solemnly swear that ~~xx~~ will well and truly perform the duties of moundmen in the establish
 of corners, according to the instructions given ~~me~~ to the best of ~~my~~ skill and ability; in the sur

Payson Forest Reserve Boundary

(Signed) Lon Tidwell Mound
Mound

Subscribed and sworn to before me this 5th
 day of October, 1904.

Jno. P. Walker,
U. S. Surveyor.



WE, James Painter, June Kendall and Harry Irons
 do solemnly swear that we will well and truly perform the duties of axmen in the establishment of cor
 and other duties, according to instructions given us, to the best of our skill and ability, in the sur

Payson Forest Reserve Boundary

(Signed) James Painter Ax
June Kendall Ax
Harry Irons ✓

Subscribed and sworn to before me this 5th
 day of October, 1904.
28th October for Kendall and Irons.

Jno. P. Walker,
U. S. Surveyor.



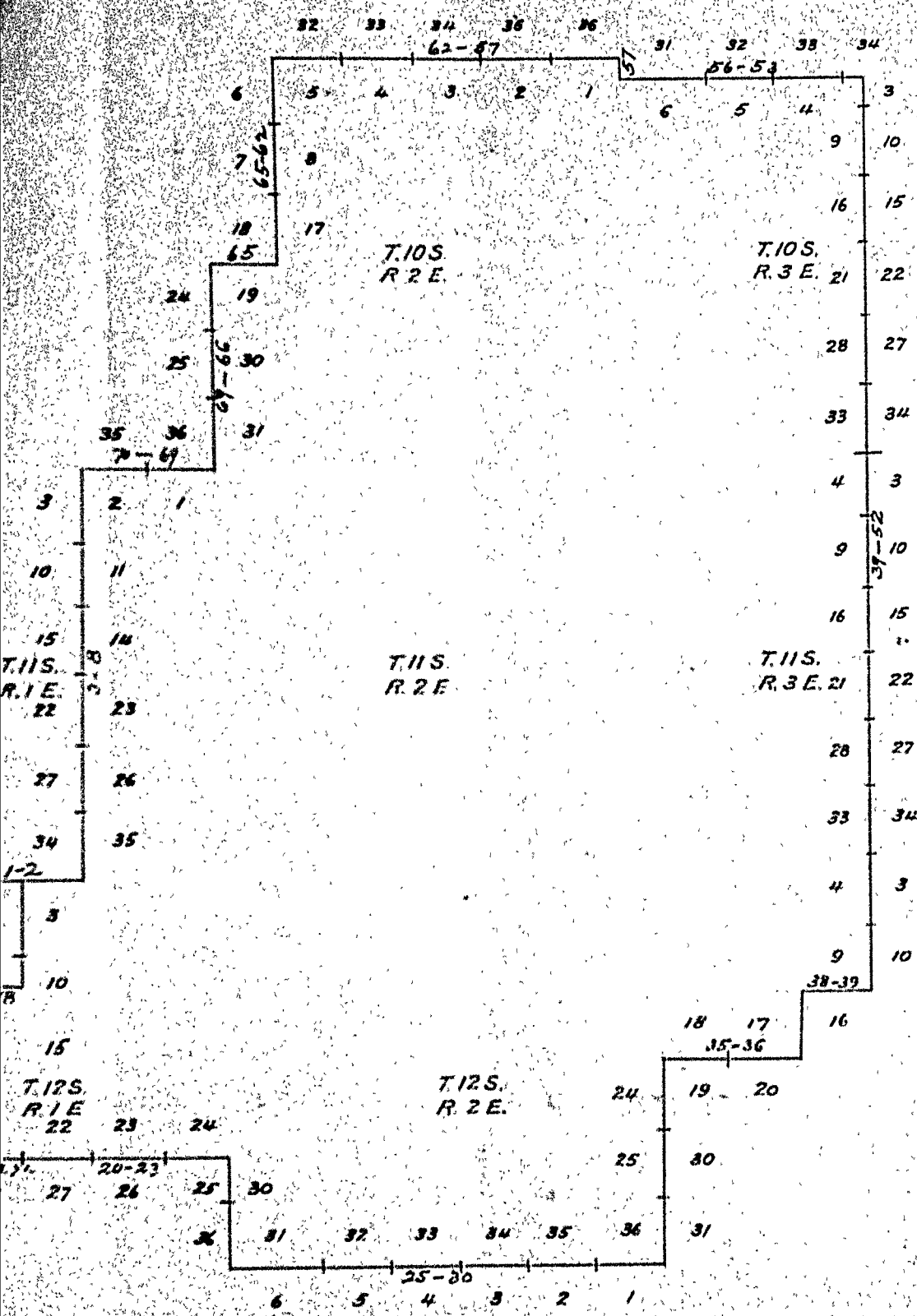
We, M. Devalson Allen & James Painter do solemnly swear that I will well and tr
 perform the duties of flagman according to instructions given me, to the best of my skill and ability, in
 survey of

(Signed) M. Devalson Allen Flag
James Painter "

Subscribed and sworn to before me this 5th
 day of October, 1904.
Oct. 25th for Painter.

Jno. Walker,
U. S. Surveyor.





INDEX TO PAYSON FOREST RESERVE NOTES

1 R

Chains. Survey commenced October 3, 1904, and executed with a Young & Sons Transit No. 10, with Smith patent solar attachment. The horizontal limb is provided with two verniers reading to single minutes of arc, which is also the least count of the latitude and declination arcs.

Having previously made adjustments of the transit proper, including adjustments of level bubbles, standards and line of collimation, I proceed as follows to test adjustments of solar apparatus and its position with respect to line of collimation of transit:

At the $\frac{1}{2}$ sec. corner on south boundary of sec. 33, T. 11 S., R. 1 E., of Salt Lake Base and Meridian, State of Utah, which is in latitude $39^{\circ}48'41''$, longitude $111^{\circ}52'$ W. from Greenwich. I observe Polaris in accordance with Manual at 7^h58^m p.m., l.m.t., and mark the direction thus determined by a hub, firmly driven in ground, 6.00 chs. dist. from instrument.

U. C. Polaris, Oct. 1,	$12^h43.7^m$
Reduction to Oct. 3,	7.9
U. C. Oct. 3,	$12\ 36$
Time of observation Oct. 3,	$7\ 58$
Time argument,	4^h38^m
Azimuth of Polaris, $1^{\circ}28'30''$ E.	

October 3, 1904.

October 4: At 7 a.m. I turn off the azimuth of Polaris $1^{\circ}28'30''$ to the west and establish true meridian and mark direction thus determined by hub firmly set in ground 6.00 chs. N. of instrument.

Thence to test solar apparatus I set off $39^{\circ}48'45''$ on latitude arc and $4^{\circ}15'$ S. on the declination arc, and at 7 a.m. establish meridian with solar and find same agrees with meridian established from Polaris.

Thence I set off $4^{\circ}23'$ S. on the declination arc and at $11^h48^m48^s$ l.m.t. observe sun on meridian and obtain a reading of $39^{\circ}48'45''$ on latitude arc, which agrees with other data.

Thence I set off $39^{\circ}48'45''$ on latitude arc and $4^{\circ}24'30''$ S. on declination arc and at 5 p.m. establish meridian with solar and find meridian thus determined agrees with a.m. observation and Polaris observation. Magnetic declination $16^{\circ}45'$ E. of north. Oct. 4, 1904

Oct. 5: T. 11 S., R. 1 E.
At corner of secs. 32 and 33 on S. bdy. of T. 11 S., R. 1 E., which is a limestone $14 \times 10 \times 8$ ins. above ground, firmly set and properly marked, and its position is corroborated by evidence of old settlers, I set off $39^{\circ}48'45''$ on latitude arc and $4^{\circ}38'$ S. on declination arc, and at 7 a.m., October 5th establish meridian with solar.

Thence I run East on random retracement line on south boundary of sec. 33.

40.34 Original position of old $\frac{1}{2}$ sec. corner bears N. 86 lks. dist., in center of E. and W. lane, and point is ascertained by evidence of John Molyneaux, who states that he has lived in S. W. $\frac{1}{4}$ of sec. 33 since 1862, and will certify that this is original position of the $\frac{1}{2}$ sec. corner within three or four feet. There is evidence of an old mound of earth and also stubs of old post forming fence line west from this point. I therefore accept this as true original point and set a limestone $24 \times 14 \times 12$ ins. 18 ins. in ground for $\frac{1}{2}$

PAYSON FOREST RESERVE BOUNDARY.

T. 11 S., R. 1 E.

- Chains. sec. corner, marked $\frac{1}{2}$ on N. face, and dig pits 18x18x12 ins., 3 ft. E. and W. of corner, and raise mound of stone covered with earth, 4 ft. base, 2 ft. high, N. of corner.
- Thence I run
S. 88°41' W. on true retracement line along W. half of south boundary of sec. 33, down center of 66-foot lane.
- 40.34 Corner of secs. 32 and 33; south boundary of Mona Cemetery bears N. 33 lks. dist.
Thence from the $\frac{1}{2}$ sec. corner on south boundary of sec. 33 I run
N. 88°47' E. on true line along S. boundary of sec. 33 in center of 66-foot lane. This bearing is used that line to east may conform to present existing lane and be a continuation of west half-mile; no evidence of the post 30.00 chs. east, as called for in notes, and original line is assumed to have been straight in absence of evidence to contrary.
- 1.30 Willow Creek, 12 lks. wide, 6 ins. deep, clear fresh water, course E. W.
- 20.00 Lane fence, 33 lks. S., corners and turns S.; fence 33 lks. E., corners and turns E.
- 30.00 No trace of old post called for in notes of General Land Office.
- 40.00 Set limestone 20x10x6 ins., 15 ins. in ground, for corner of secs. 33 and 34, marked with 3 notches on E. and W. faces, and raise mound of stone, 4 ft. base, 3 ft. high, N. of corner.
Land, level and rolling.
Soil, gravelly, 4th rate.
Timber, none.

Note: This corner was set and mound of stone replaced N. of corner after line from south had been run and found to be a closing line.

From corner of secs. 33 and 34 on south boundary of T. 11 S., R. 1 E., I run
East on true line along south boundary of sec. 34, ascending abruptly west slope of Mt. Nebo, bears N. and S.

- 2.00 Enter dense oak brush bears N. and S.; leave open prairie.
- 8.70 Draw, 10 lks. wide, course E. 80° W.
- 31.90 Same draw, course S. 80° W.
- 39.90 Side hill wash, 5 lks. wide, course N. 30° W.
- 40.00 Set limestone 20x10x5 ins. 15 ins. in ground for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on N. face, and raise mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, N. of corner.
- 61.31 Offset to N. 20 lks. to pass vertical rock pinnacle on line.
- 63.01 Take up offset to S. 20 lks. to true line.
- 68.72 Offset to S. 21 lks. to pass rock ledge.
- 71.09 Take up offset to N. 21 lks. to true line.
- 80.00 Set iron U. S. Forest Reserve Boundary Post No. 7, 30 ins. in ground, and build mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, around same for corner of secs. 34 and 35, marked:
T 11 S S 35 in N. E. quadrant
R 1 E S 34 in N. W. quadrant
RESERVE in N. E., S. E. and S. W. quadrants, with 2 notches on E. and 4 on W. faces, and raise mound of stone, 4 ft. base, 3 ft. high, E. of corner; no trees available; pits impracticable.
Corner falls on N. W. slope of spur, which latter runs about S. 80° W. from Mt. Nebo, and 2170 ft.

PAYSON FOREST RESERVE BOUNDARY.

T. 11 S., R. 1 E.

Chains.	by vertical angle, above sec. corner to W., in valley. Land, mountainous. Soil, rocky and gravelly, 4th rate. Timber, small scrubby dense oak brush. October 5, 1904.
	October 6: Cloudy and rain.
	October 7: From corner of secs. 34 and 35 on south boundary of T. 11 S., R. 1 E., I run
	N. 0°01' W. on true line between secs. 34 and 35, through dense small oak brush, descending bears N. E. and S. W.
5.60	Offset 23 lks. to the E., around vertical rock pinnacle.
6.00	Take up offset 23 lks. W. to true line.
10.00	Swaile forming head of draw, course N. 80° W., at base of 200-foot descent; begin ascent, bears N. 20° W. and S. 20° E.
20.50	Top of 150-foot ascent on spur ridge bears E. and W., and top sloping abruptly to W., begin descent bears N. 70° E. and W.
38.00	Trail along rocky side hill, bears N. 60° W. and S. 60° E.
39.40	Mark cross (+) and W. C. $\frac{1}{4}$ on N. side of boulder in place 6x3x4 ft. above ground, for witness corner to $\frac{1}{4}$ sec. corner between secs. 34 and 35, from which: A red fir, 12 ins. diam., bears N. 65°30' W., 56 lks. dist., marked $\frac{1}{4}$ S 34 B T A vine maple, 4 ins. diam., bears S. 21°15' E., 46 lks. dist., marked RES $\frac{1}{4}$ S 35 B T and build mound of stone, 3 ft. base, 2 ft. high, 2 ft. S. of cross on top of boulder (not practicable to place mound on W. of cross.
40.00	True point for $\frac{1}{4}$ sec. corner falls on unsafe ground, too steep to set a corner.
40.80	Base of 850-foot descent at creek, 20 lks. wide, course N. 60° W., stream of fresh water, 5 lks. wide, 4 ins. deep, which sinks in places under cobble rocks; 4.00 chs. E. of line is 80-foot waterfall over rock ledge.
48.00	Draw 10 lks. wide, course W.; begin ascent, bears E. and W.
53.90	Draw, 10 lks. wide, course S. 80° W.
59.00	Draw, 8 lks. wide, course S. 80° W.
64.00	Top of 200-foot ascent on steep W. slope; begin descent bears N. E. and S. W.
66.75	Draw 10 lks. wide, course S. 80° W., at base of 90-foot descent; begin ascent; enter scattering cedar timber, bears E. and W.
77.50	Top of 450-foot ascent bears N. 80° E. and S. 80° W., on spur of Mt. Nebo. Leave cedar timber, bears E. and W., continue in scrub oak and mountain mahogany brush.
79.00	Begin descent, bears N. 80° E. and S. 80° W.
80.00	Set iron U. S. Forest Reserve Boundary Post No. 6, 24 ins. in ground for corner of secs. 26, 27, 34 and 35, and build mound of stone around same, 4 ft. base, 1 $\frac{1}{2}$ ft. high, marked: T 11 S S 26 in N. E. quadrant R 1 W S 35 in S. E. quadrant S 34 in S. W. quadrant S 27 in N. W. quadrant RESERVE in N. E. and S. E. quadrants, with 2 notches on E. and 1 on S. sides. No trees available, and pits impracticable. I build mound of stone, 4 ft. base, 3 ft. high, W.

RAYSON FOREST RESERVE BOUNDARY.

T. 11 S., R. 1 E.

Chains.	of corner. Land, mountainous. Soil, black limestone and gray, gravelly, 4th rate. Timber, cedar and scattering fir along cliffs forming banks of creek, dense scrub oak, vine maple and mountain mahogany brush.
	I set off 5°32'30" S. on declination arc and at 12 ⁰⁰ 05 ⁰⁰ before noon l.m.t., observe sun on meridian and obtain a reading of 39°49'30" on latitude arc, which agrees with other data. From corner of secs. 26, 27, 34 and 35 I run N. 0°01' W. on true line between secs. 26 and 27, through dense oak brush, descending abruptly.
1.60	Cedar post set in mound of stone bears E., 70 lks. dist., mineral claim stake marked: "R.W.C., Post 111, Ritch Sun Claim."
9.00	Base of 300 ft. descent at draw 15 lks. wide, course N. 80° W.; solid rock bottom draw, begin ascent along steep W. slope of spur.
17.10	Top of 100-foot ascent on W. slope of spur-begin descent.
21.80	Draw 10 lks. wide, course N. 70° W.; base of 200-foot descent; leave oak brush, enter scattering cedar and mahogany brush and begin ascent.
24.31	Mining claim or tunnel line post bears E., 20 lks. dist., marked "15104 A".
25.75	Top of 100-foot ascent on W. slope of spur; begin descent, bears E. 30° E. and S. 30° W.
33.50	Set limestone 18x10x8 ins., 12 ins. in ground, for witness corner to sec. corner, marked W. C. 1/2 on W. face, from which: A black pine, 12 ins. diam., bears E. 24° W., 22 lks. dist., marked W C 1/2 S 27 B T A cedar, 8 ins. diam., bears E. 63° E., 43 lks. dist., marked RES W C 1/2 S 26 B T
33.62	Begin precipitous descent down impassible canyon wall, over which I take stadia reading.
33.62	Instrument 33.62 Angle (vertical) across = +5°06' Rod reading 1530 ft. Red. to horizontal meas. = 1220 ft. = 18.48 chs. Dist. to rod, 52.10 chs.
49.00	True point for sec. corner falls on inaccessible canyon wall.
41.00	(About) Creek 10 lks. wide, 3 ins. deep, course W., in canyon; base of 600-foot precipitous descent; begin precipitous ascent up N. wall of rock canyon.
51.00	Top of canyon wall; continue gradual ascent bears E. 80° W. and S. 80° E.
52.85	Trail, bears E. and W. to miners cabin, on S. slope of cliff about 30.00 chs. east.
53.09	In prominent view from trail, I set iron U. S. Forest Reserve Boundary Post No. 5, 10 ins. in ground to solid rock and build mound of stone, 6 ft. base, 3 ft. high, around same for reserve boundary marking, marked: RESERVE in N. E. and S. E. quadrants, from which: A cedar, 5 ins. diam., bears N. 35° E., 86 lks. dist., marked RES B P No. 5 B T A cedar, 6 ins. diam., bears S. 40° E., 97 lks. dist., marked RES B P No. 5 B T On top of ascent 500ft. above creek, on W. slope of mountain.
54.00	Begin descent bears N. E. and S. W. Leave cedar and mahogany growth, enter dense oak brush, bears N. E. and S. W.

RAYSON FOREST RESERVE BOUNDARY.

T. 11 S., R. 1 E.

Chains.

- 61.50 Mouth of tunnel, bears E. 2.50 chs.
 71.75 Draw, 8 lks. wide, course S. 60° W., at base of 400-foot descent; thence over rolling bench sloping to the W.
 80.00 Set limestone 22x12x6 ins., 16 ins. in ground, for corner of secs. 22, 23, 26 and 27, marked with 2 notches on E. and 2 on S. sides; no trees available; pits impracticable. I build mound of stone, 4 ft. base, 3 ft. high, W. of corner.
 Land, mountainous.
 Soil, rocky limestone, 4th rate.
 Timber, cedar and scrub oak and mahogany brush.
 Many mining claims and prospects in secs. 26 and 27 and some showing of lead and silver.
 October 7, 1904.
-
- October 8: At corner of secs. 22, 23, 26 and 27, I set off 39°50' on latitude arc and 5°47' S. on declination arc and at 7 a.m. establish meridian with solar.
 Thence I run
 N. 0°01' W. on true line between secs. 22 and 23, over rolling bench, through scrub oak brush.
 1.30 Draw 10 lks. wide, course W.
 20.00 Begin descent, bears N. 80° E. and S. 80° W.
 24.40 Trail, bears N. 80° E. and S. 80° W., at base of 100-foot descent.
 25.50 Dry creek, 50 lks. wide, 20 ft. banks, course S. 80° W.; begin ascent.
 33.00 Top of 150-foot ascent on W. slope of spur, thence along steep W. slope.
 40.00 Set limestone 30x16x12 ins., 6 ins. in ground to rock, and build mound of stone, 4 ft. base, 2 ft. high, around same for sec. corner, marked $\frac{1}{2}$ on W. face, from which:
 A cedar, 4 ins. diam., bears N. 81°45' E., 153 lks. dist., marked RES $\frac{1}{2}$ S 23 B T
 No other trees available; I build mound of stone, 4 ft. base, 3 ft. high, W. of corner.
 40.20 Flat rocky wash 15 lks. wide, course W.
 44.20 Rocky draw, 30 lks. wide, 20 ft. banks, course W.
 49.00 Draw, 15 lks. wide, in 50 ft. ravine, course W.
 56.50 Rocky draw, 10 lks. wide, 20 ft. banks, course W.
 64.40 Draw, 10 lks. wide, in 40-foot ravine, course W.
 71.00 Draw 10 lks. wide in 50-foot ravine, course W.
 75.50 Begin descent, bears N. E. and S. W.
 79.30 Draw, 10 lks. wide, course W., at base of 90-foot descent, begin abrupt ascent.
 80.00 Falls on slide rock, too steep to set corner.
 83.00 Set iron U. S. Forest Reserve Boundary Post No. 4, 26 ins. in ground, and build mound of stone, 4 ft. base, 1 $\frac{1}{2}$ ft. high, around same for W. C. to corner of secs. 14, 15, 22 and 23, marked:
 W C on top of cap
 T 11 S S 14 in N. E. quadrant
 R 1 E S 23 in S. E. quadrant
 S 22 in S. W. quadrant
 S 15 in N. W. quadrant
 RESERVE in N. E. and S. E. quadrants, with 2 notches on E. and 3 on S. faces; from which:
 A cedar, 6 ins. diam., bears E. 79°15' E., 87 lks. dist., marked RES W C T 11 S R 1 E S 14 B T
 A cedar, 8 ins. diam., bears S. 72° W., 132 lks. dist., marked W C T 11 S R 1 E S-22 B T
 No other trees available.
 Witness corner on west slope of spur 3.00 chs. N. of true point; 100 ft. above draw.

RAYSON FOREST RESERVE BOUNDARY.

T. 11 S., R. 1 E.

- Chains. Land, mountainous and precipitous.
Soil, limestone, rocky and gravelly, 4th rate.
Timber, scattering cedar, scrub oak brush and mountain mahogany; about 15.00 chs. W. of line is foot of steep W. slope of Nebo Mountain range, bearing N. and S.
Many mineral claims and prospects in secs. 22 and 23 and some evidence of lead and silver.
-
- At true point for corner of secs. 14, 15, 22 and 23, which is 3.00 chs. S. of W. C., I set off $5^{\circ}55'15''$ S. on declination arc, and at 12^m21^s before noon, 1.m.t., observe sun on meridian and obtain a reading of $39^{\circ}51'$ on latitude arc.
Thence I run
N. $0^{\circ}01'$ W. on true line between secs. 14 and 15, ascending over slide rock.
- 3.00 Top of 100-foot ascent, bears N. 10° W. and S. E.; thence along steep W. slope of spur through oak brush.
- 15.00 Ravine 80 ft. deep, course W.
- 20.00 Top of ridge, sloping to W.; begin abrupt descent, bears W. and E.
- 28.00 Creek, 10 lks. wide, 4 ins. deep, clear limestone water, course E., at base of 300-foot descent, begin ascent.
- 38.00 Top of 200-foot ascent on E. slope of spur; thence along W. slope.
- 40.00 Set red granite 20×5 ins., 15 ins. in ground, for sec. corner, marked $\frac{1}{2}$ on E. face and raise mound of stone, 4 ft. base, 3 ft. high, W. of corner.
- 45.00 Rocky gulch, 10 lks. wide, course E.
- 59.00 Rocky gulch, 10 lks. wide, course E.
- 74.00 Rocky gulch, 10 lks. wide, 50 ft. deep, course E.
- 78.20 Rocky gulch, 10 lks. wide, 30 ft. deep, course E.
- 80.00 Set iron U. S. Forest Reserve Boundary Post No. 3, 18 ins. in ground to rock and build mound of stone, 4 ft. base, 2 ft. high, around same, for corner of secs. 10, 11, 14 and 15, marked:
T 11 S S 11 in N. E. quadrant
R 1 E S 14 in S. E. quadrant
S 15 in S. W. quadrant
S 10 in N. W. quadrant
RESERVE in N. E. and S. E. quadrants, with 2 notches on E. and 4 on S. sides, from which:
A cedar, 12 ins. diam., bears N. 35° E., 66 lks. dist., marked RES T 11 S R 1 E S 11 B T
A cedar, 12 ins. diam., bears S. $32^{\circ}45'$ E., 74 lks. dist., marked RES T 11 S R 1 E S 14 B T
A cedar, 12 ins. diam., bears S. $72^{\circ}15'$ W., 29 lks. dist., marked T 11 S R 1 E S 15 B T
A cedar, 14 ins. diam., bears N. $61^{\circ}30'$ W., 13 lks. dist., marked T 11 S R 1 E S 10 B T
- Land, mountainous.
Soil, rocky, limestone, 4th rate.
Timber, scattering cedar, scrub oak brush and mountain mahogany in clusters.

October 8, 1904.

October 10: At corner of secs. 10, 11, 14 and 15, I set off $39^{\circ}52'$ on latitude arc and $5^{\circ}50'30''$ S. on declination arc, and at 8 a.m. establish meridian with solar.
Thence I run
N. $0^{\circ}01'$ W. between secs. 10 and 11, along steep W. slope of mountain, through scattering cedar timber and dense mahogany brush in clusters.

PAYSON FOREST RESERVE BOUNDARY.

T. 11 S., R. 1 E.

Chains.	
3.00	Rocky gulch, 10 lks. wide, 30 ft. deep, course W.
10.30	Rock walled gulch, 10 lks. wide, 40 ft. deep, course W.
14.45	Point of rock on W. slope of ridge.
16.50	Swail draw, course W.
29.00	Rocky gulch, 10 lks. wide, 50 ft. deep, course W.
40.00	Set granite 18x12x6 ins., 12 ins. in ground, for 1 sec. corner, marked 1 on W. face, and raise mound of stone, 3 ft. base, 2 ft. high, W. of corner; from which the S. W. face of a limestone boulder 12x8x6 ft. above ground bears N. 20° E., 35 lks. dist., marked B. R. Point of rock on north side of butte bears N. 79°15' W., about 5.00 chs. dist.
45.00	Rocky wash in flat swail, course N. 70° W.
50.60	Ravine 80 ft. deep, course N. 70° W.
57.50	Top of white quartzite ridge on steep W. slope.
64.80	Brushy swail, course W.
66.00	Begin descent, bears N. E. and S. 10° W.
69.30	Brushy swail, course N. 70° W., base of 100-foot descent. Thence over rolling surface, sloping gently to west, dotted with clusters of dense oak brush.
77.40	Creek 6 lks. wide, 4 ins. deep, course N. 70° W., for 10.00 chs.; thence W. into flat.
80.00	Set iron U. S. Forest Reserve Boundary Post No. 2, 20 ins. in ground to rock and build mound of stone, 4 ft. base, 2 ft. high, around same, for corner of secs. 2, 3, 10 and 11, marked: T 11 S 2 in N. E. quadrant R 1 E 3 11 " S. E. quadrant S 10 in S. W. quadrant S 3 in N. W. quadrant RESERVE in N. E. and S. E. quadrants, with 2 notches on E. and 5 on S. sides, and raise mound of stone, 4 ft. base, 3 ft. high, 5 ft. W. of corner. No trees available; pits impracticable. Land, mountainous. Soil, rocky, 4th rate. Timber, few scattering cedars, brush of mountain mahogany and scrub oak.
<hr/>	
	At this corner I set off 6°41' S. on declination arc and at 12 ⁵⁴ before noon, l.m.t., observe sun on meridian and obtain a reading of 39°53' on latitude arc.
	From corner of secs. 2, 3, 10 and 11 I run N. 0°01' W. on true line between secs. 2 and 3, over rolling surface gradually sloping to W., through scrub oak brush.
1.35	Old road, bears N. E. and S. W.
5.50	Wash, 5 lks. wide, course W.
8.00	Old road, bears W. and E.
23.50	Draw, 10 lks. wide, 20 ft. banks, course N. 70° W.
26.85	Draw, 10 lks. wide, course W.; begin ascent, bears E. and W.
34.00	Top of 90-foot ascent on steep W. slope.
38.00	Begin descent, bears N. E. and S. 10° W.
40.00	Set limestone 18x10x8 ins., 12 ins. in ground, for 1 sec. corner, marked 1 on E. face, and build mound of stone, 3½ ft. base, 2 ft. high, W. of corner; pits impracticable.
52.35	Draw, 10 lks. wide, course N. 60° W., 20 ft. banks. Base of 80-foot descent; thence over rolling surface, gradually sloping to W., dotted clusters of scrub oak brush.
66.10	Draw, 8 lks. wide, course N. 70° W.
85.10	Intersect 2nd Standard Parallel South 3.82 chs.

PAYSON FOREST RESERVE BOUNDARY.

T. 11 S., R. 1 E.

Chains.

E. of standard corner of secs. 34 and 35, which is blue limestone marked as described and firmly set, with mound of stone over corner.

At this intersection I set iron U. S. Forest Reserve Boundary Post No. 1, 24 ins. in ground, and build mound of stone, 6 ft. base, 1½ ft. high, around same for closing corner of secs. 2 and 3, marked:

C C on top of cap south of center

R 1 E S 2 in S. E. quadrant

T 11 S S 3 in S. W. quadrant

RESERVE in S. E. quadrant, with 2 notches on T. and 4 on W. faces, and build mound of stone, 4 ft. base, 3 ft. high, 5 ft. south of C. C.

Land, rolling and broken.

Soil, gravelly and rocky, 4th rate.

Timber, scrub oak brush.

October 10, 1904.

GENERAL DESCRIPTION T. 11 S., R. 1 E.

In the eastern portion, comprising two tiers of sections, the country is extremely mountainous and rough. Mt. Nebo, with an elevation of 11680 ft. above sea and 6600 above valley to the west, is approximately on east boundary of township, about in sec. 25; the range, composed of peaks and summits very steep and a little less elevation, running N. and S. Mountains covered with growth of small oak brush, vine maple in draws; mountain mahogany nearly to top, is then barren rocky crags and slide rock; the north slopes near summits have growth of fir timber, though most dense; lower on mountain is some scattering cedar. Several fresh water streams flow west from mountain and are used in irrigating valley in western and central portion of township. Water supply is not sufficient, however, to reclaim all available lands. Much of water sinks in rock talus of mountain; in some cases is conducted across this by rock-walled ditches. There is an economic field for small expenditures along this line. The western and central portion is rolling and level open valley, western portion being traversed by Salt Creek and by S.P., M.A. and F.M. Railroad. Settlement and town of Hona is situated in secs. 31 and 32 and is watered by Willow creek. The central eastern portion of township contains lead and silver and is being worked on very small scale in sec. 26, though many claims are staked and some prospecting has been done. General formation is blue limestone and flint, with granite core. Mean magnetic declination 16°40' E.

T. 12 S., R. 1 E.

October 11th:

At corner of secs. 21, 22, 27 and 28, T. 12 S., R. 1 E., which is a limestone 8x5x6 ins. above ground, firmly set, correctly marked and witnessed by small mound of stone W. of corner, which I increase to 4 ft. base and 3 ft. high.

At a point 7 lks. west of this corner I set iron U. S. Forest Reserve Boundary Post No. 17, 30 ins. in ground and build mound of stone, 4 ft. base, 1 ft. high, around same, for witness corner to corner of secs. 21, 22, 27 and 28, marked:

W C on top of cap

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 1 E.

Chains.

T 11 S S 22 in N. E. quadrant
 R 1 E S 27 in S. E. quadrant
 S 28 in S. E. quadrant
 S 21 in N. E. quadrant

RESERVE in N. E. and N. W. quadrants.

At the true corner I set off $39^{\circ}45'$ on latitude arc
 and $6^{\circ}59'$ S. on the declination arc and at 8 a.m.
 a.s.t., establish meridian with solar.

Thence I run

N. $0^{\circ}02'$ W. on true line between secs. 21 and 22,
 descending over rocky surface, dotted with clusters
 of oak and appleberry brush.

2.00 Draw, 5 lks. wide, course W., at base of 40-foot
 descent; begin ascent.

5.00 Top of 50-foot ridge, bears N. and E.; begin descent.

11.15 Spring brook, 3 lks. wide, 3 ins. deep, course E.;
 base of 150-foot descent.

11.85 Old road, bears E. and W.

15.00 Begin ascent of rocky hill, dotted with scattering
 cedar and mountain mahogany brush.

18.55 Draw, 5 lks. wide, course S. W.

35.05 Drag trail, bears N. 70° E. and S. W., on top of
 spur, 680 ft. above brook.

37.00 Head of draw, course S. 70° W.

40.00 Set limestone $22 \times 10 \times 8$ ins., 12 ins. in ground for
 1 sec. corner, marked 1 on E. face, and build
 mound of stone, 3 ft. base, 2 ft. high, W. of
 corner, from which:

A cedar, 6 ins. diam., bears N. $59^{\circ}15'$ E., 68
 lks. dist., marked 2 22 E T

A cedar, 14 ins. diam., bears S. $18^{\circ}30'$ W., 73
 lks. dist., marked 1 S 21 E T

A bald butto bears S. $59^{\circ}11'$ E. about 4 miles
 distant. Center of East Street in town of Nephi
 bears S. $0^{\circ}05'$ E., about 2 1/2 miles distant.

42.50 Top of ridge, bears E. and W. 730 ft. above last
 brook, begin descent. Leave cedar timber, enter
 oak and appleberry brush, bears E. and W.

57.00 Draw, 5 lks. wide, course E. W.

60.45 Draw, 5 lks. wide, course E. 80° W.

67.00 Spring brook, 1 lk. wide, 1 in. deep, course E., at
 base of 600-foot descent; begin ascent, bears E.
 and W. Leave oak brush, enter scattering cedar
 timber.

80.00 Set limestone $24 \times 10 \times 8$ ins., 16 ins. in ground for
 corner of secs. 15 and 22, marked with 5 notches
 on E. and S. faces, from which:

A cedar, 12 ins. diam., bears E. $77^{\circ}30'$ N., 21
 lks. dist., marked 5 12 S R 1 E S 15 E T

A cedar, 10 ins. diam., bears E. 57° N., 45 lks.
 dist., marked 7 12 S R 1 E S 22 E T

and build mound of stone, 4 ft. base, 3 ft. high,
 E. of corner.

Note: This corner is made common to secs. 15 and
 22 only; after line from west proves necessity of
 closing corner of secs. 16 and 21.

Corner falls on W. end of ridge 600 ft. above
 spring brook.

Land, mountainous.

Soil, rocky limestone, 4th rate.

Timber, scattering small cedar on E. slopes, scrub
 oak and appleberry brush on W. slopes.

At this corner I set off $7^{\circ}03'45''$ S. on declination
 arc and at $13^{\text{h}}09^{\text{m}}$ before noon, l.m.t., observe
 sun on meridian and obtain a reading of $39^{\circ}46'$ on
 latitude arc.

From corner of secs. 15 and 22 I run

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 1 E.

- Chains. N. 0°02' W. on true line along W. boundary of sec. 15, through scattering cedar timber.
- 10.00 Begin abrupt descent, bears N. 60° W. and S. 60° E., and leave scattering cedar timber, bears E. and W.
- 18.00 Base of 400-foot descent bears E. and W.; thence over rolling bench.
- 21.30 Begin abrupt descent, bears E. and W.
- 25.30 Brook, 5 lks. wide, 30 ins. deep, course W., small aspen and maple trees in gulch; base of 300-foot descent; begin abrupt ascent over nearly bare ridge dotted with mountain mahogany and sage brush.
- 36.00 Top of 500-foot ascent on steep W. slope of ridge, bearing to E.
- 38.00 Begin abrupt descent, bears E. and S. 20° W., through dense scrub oak brush.
- 40.00 Point for true $\frac{1}{2}$ sec. corner falls on slide rock, unsafe for setting of corner.
- 40.03 At a point 3 lks. N. of true point for $\frac{1}{2}$ sec. corner I mark cross on limestone ledge in place 4x1x2 ft. above ground, and W. C. $\frac{1}{2}$ east of cross, for witness corner to $\frac{1}{2}$ sec. corner on west boundary of sec. 15.
- 44.00 Spring brook, 1 lk. wide, 1 in. deep, course W., base of 450 ft. descent; begin abrupt ascent of slide rock hill, covered with scattering mahogany and cedars.
- 53.50 Top of 500-foot ascent on ridge, bears E. and W.; begin descent.
- 55.00 Base of 40-foot descent, at draw 8 lks. wide, course S. 70° W.; begin ascent.
- 56.55 Drag trail, bears N. E. and S. W.
- 60.00 Backbone of ridge, bears N. 70° E. and S. 70° W., continue ascent along steep W. slope.
- 73.00 Top of 250 ft. ascent on steep W. slope.
- 75.50 Begin abrupt descent, bears N. E. and S. 20° W. Leave scattering cedar timber, enter oak and appleberry brush.
- 78.00 Wash, 5 lks. wide, course N. W.
- 80.00 Set limestone 20x12x8 ins., 15 ins. in the ground, for corner of secs. 10 and 15, marked 3 notches on E. and 4 on S. faces, and build mound of stone, 4 ft. base, 3 ft. high, E. of corner.
- Note: Mound of stone placed east of corner and same made common to two secs., after line from west proves necessity of C. C.
- Land, mountainous.
- Soil, stony and limestone, slide rock, 4th rate.
- Timber, scattering cedar and mountain mahogany brush on south slopes; scrub oak and appleberry brush on N. slopes.

October 11, 1904.

October 12: Snow and cloudy, no work.

October 13: From corner of secs. 10 and 15 I run N. 0°02' W. on true line along W. boundary of sec. 10, descending abruptly over rocky ground, through dense scrub oak brush.

- 10.00 Draw, 10 lks. wide, course W., at base of 550-foot descent; begin abrupt ascent, and mahogany brush.
- 16.90 Top of 400-foot ascent on ridge bears E. and W., sloping to W. on top; begin descent through oak brush.

RAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 1 E.

Chains.
24.70 Draw, 10 lks. wide, course N. 70° W., base of 450-foot descent; begin ascent.
32.00 Top of 200-foot ascent on steep W. slope of spur.
34.50 Wash, 8 lks. wide, course W.
39.30 Set limestone 20x12x6 ins., 15 ins. in the ground for W. C. to ½ sec. corner on W. boundary of sec. 10, marked W. C. ½ on E. face, and build mound of stone, 3 ft. base, 2 ft. high, E. of corner; begin abrupt ascent up slide rock hill.
40.00 True point for ½ sec. corner falls in slide rock, unsafe for corner.
45.60 Top of 250-foot ascent on rock ledge, bears E. and W.
52.50 Draw, 10 lks. wide, course N., base of 350-foot descent; begin abrupt ascent.
59.00 Top of 300-foot ascent on steep W. slide rock slope, thence along steep W. slope.
66.00 Draw in 40-foot rock wall ravine, course N. 70° W.
69.50 Draw, 10 lks. wide, in 80-foot rock wall ravine, course W.
72.85 Top of rocky ridge, bears E. and W.; begin gradual descent down steep W. slope of ridge spur.
80.00 Falls on unsafe ground in slide rock.
80.20 Set iron U. S. Forest Reserve Boundary Post No. 9, 30 ins. in ground and build mound of stone, 3½ ft. base, 1 ft. high, around same for witness corner to corner of secs. 3 and 10, marked:
W C on top of cap
T 12 S S 3 in N. E. quadrant
R 1 E S 10 " S. E. quadrant
RESERVE in N. E. and S. E. quadrants, with 5 notches on S. and 3 on E. faces, and build mound of stone, 4 ft. base, 2 ft. high, E. of corner.
Note: Corner made common to secs. 3 and 10 only, after line from west proves necessity of C. C.
Land, mountainous.
Soil, rocky and slide rock, limestone, 4th rate.
Timber, occasional cedar, scrub oak and mahogany brush.
One-quarter of the day cloudy.
October 13, 1904.

October 14: At the corner of secs. 3 and 10 I set off 39°48' on the latitude arc and 8°06' S. on declination arc and at 9 a.m., a.s.t., establish meridian with solar.

Thence I run

N. 0°02' W. on random line along W. boundary of sec. 3.

40.00 Set stake for temporary ½ sec. corner.
84.50 Intersect W. boundary of Tp. 7.76 chs. E. of corner of secs. 33 and 34, at which intersection I set iron U. S. Forest Reserve Boundary Post No. 8, 30 ins. in ground, for C. C. of secs. 3 and 4, marked:
C C on top of cap, south of center
R 1 E S 3 in S. E. quadrant
T 12 S S 4 in S. W. quadrant
RESERVE in S. E. quadrant, with 3 notches on E. and W. faces and build mound of stone, 3 ft. base, 1 ft. high, around post; mound of stone, 4 ft. base, 3 ft. high, S. of corner.
Thence from this C. C. I run
S. 0°02' E. on true line between secs. 3 and 4, ascending through dense oak brush.
1.80 Top of 60-foot ascent, on steep W. slope, begin descent.
10.80 Old wood road bears N. 70° E. and S. 70° W., base of 80-foot descent.

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 1 E.

Chains.

- 11.70 Creek, 5 lks. wide, 5 ins. deep, course S. 70° W., begin ascent.
- 15.30 Top of 80-foot ascent; point of rocky ridge bears E. and W.; begin descent.
- 20.00 Draw, 8 lks. wide, course W., base of 80-foot descent.
- 44.50 Set limestone 30x18x16 ins., 20 ins. in ground, for $\frac{1}{2}$ sec. corner on W. boundary of sec. 3, marked $\frac{1}{2}$ on E. face, from which:
 A vine maple, 4 ins. diam., bears S. E. 95 lks. dist., marked RES $\frac{1}{2}$ S 3 B T
 and build mound of stone, 4 ft. base, 3 ft. high, E. of corner.
- 48.40 Willow Creek, 8 lks. wide, 8 ins. deep, course W.
- 53.10 Old wood road, bears N. 80° W. and S. 80° E.
- 54.30 Old creek bed, 20 lks. wide, course W.
- 62.10 Begin ascent, bears N. E. and S. W.
- 75.00 Top of 350-foot ascent, bears N. 20° E. and S. 10° W.
- 79.80 Wash, 5 lks. wide, course W.
- 84.50 Corner of secs. 3 and 10, or southwest corner of sec. 3 and northwest corner of sec. 10.
 Land, mountainous and rolling.
 Soil, stony, limestone and solid rock, 4th rate.
 Timber, scrub oak and mahogany brush.

At C. C. of secs. 3 and 4 on N. boundary of T. 12 S., R. 1 E., I set off 8°11' S. on declination arc and at 13^h53^m before noon l.m.t., observe sun on the meridian and obtain a reading of 59°48'45" on latitude arc, which agrees with other data.
 From corner of secs 21, 22, 27 and 28, previously described I run

West between secs. 21 and 28.

- 40.00 At a point 4 lks. S. is evidence of hole having been dug and a scattered mound of stone lying N. of same, which in connection with corroborative evidence I accept as original position of $\frac{1}{2}$ sec. corner and at this point set

Iron U. S. Forest Reserve Boundary Post No. 16, 30 ins. in ground and build mound of stone, 4 ft. base, 1 ft. high, around same for $\frac{1}{2}$ sec. corner/ marked:

$\frac{1}{2}$ S 21 on N. face

$\frac{1}{2}$ S 28 on S. face

RESERVE in N. E. quadrant, and build mound of stone, 4 ft. base, 3 ft. high, E. of corner.

Thence from this corner I run

N. 89°57' E. on true retracement line between secs. 21 and 28, over rolling rocky flat.

- 5.50 Draw, 10 lks. wide, course N. 70° W. into flat line of foot of mountain bears N. and S. 20° E.

7.50 Lime kiln bears S. 50 lks. dist.

9.00 Same draw, course S. 70° W.

11.00 Road bears N. 70° E. and S. 70° W.

15.56 Irrigation ditch 4 lks. wide, 12 ins. deep (dry), course S. 70° W.

18.00 Brook, 4 lks. wide, 3 ins. deep, clear fresh water, course S. 70° W.

24.50 Begin ascent, bears N. 70° E. and S. 70° W.
 Enter dense oak and appleberry brush.

37.20 Wash, 3 lks. wide, course N.

40.00 Corner of secs. 21, 22, 27 and 28.

Thence from the $\frac{1}{2}$ sec. corner between secs. 21 and 28, I run

S. 89°57' W. on random retracement line between west halves of secs. 21 and 28.

- 40.00 No trace of old corner; set temporary corner.

Note: From this stake I run west, south and north

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 1 E.

Chains.

for one mile and find no trace of old corners, and no evidence further than that this point is on a line with center of lane to the west, and distances west from here agree fairly well with present fences, most of which, from best evidence obtainable, have been set by county surveyor as no original monuments at position are in evidence. I therefore accept this position as true point for corner and set limestone 20x12x6 ins., 15 ins. in the ground for corner of secs. 20, 21, 28 and 29, marked 4 notches on E. and 2 on S. faces, and build mound of stone, 4 ft. base, 3 ft. high, W. of corner.

Thence I run

N. 89°57' E. on true retracement line between secs.

21 and 28, over gently rolling open valley.

Fence bears N. and S.

At the 1 sec. corner between secs. 21 and 28.

Land, gently rolling.

Soil, gravelly and sandy, 3rd and 4th rate.

Timber, none.

October 14, 1904.

October 15: From the corner of secs. 20, 21, 28 and 29, I run

S. 89°37' W. down center of lane to west.

Fence N. and S. 20 lks., then E., enter lane, thence down lane.

Corner of fence 30 lks. N., bears N. and W., thence in road.

Irrigation ditch, course S. 30° W.

Center of San Pedro, Los Angeles and Salt Lake

R. R. track, bears N. 14°46' W. and S. 14°46' E., long tangent on E. end about 3 or 4 miles, about 2 chs. to S. curves to right.

Cross fence bearing N. 1°40' W. joins E. side of land 30 lks. to E.

No trace of old corner.

Fence from E. joins E. side of lane 30 lks. to E.

House bears E. 4.00 chs. dist.

Corner of fence, bearing E., N. and S. 40 lks. to S.

No trace of old corner.

Note: From distances above of cross fences and corners of fences it would appear that corner of secs. 20, 21, 28 and 29 is about 50 lks. too far to west to fit majority of fences, but as the mile between secs. 21 and 28 is already 15 lks. shorter than reported, and as corner of secs. 20, 21, 28 and 29 is now west of N. and S. fence evidently intended for line fence, and as no fences can be accepted by evidence as correct (evidence being that county surveyor established same) I deem the present position of corner of secs. 20, 21, 28 and 29 in average and fair position from best information obtainable. No corners to west of line nor on Salt Lake Meridian are known to exist and oldest settlers state they are not prepared to certify to original positions of any of old corners in township.

No corners set on this mile, as same is merely run to show reasons for my actions.

RANDOM LINES.

From corner of secs. 20, 21, 28 and 29 I run

N. 0°03' W. on random line between secs. 20 and 21.

No trace of corner; set stake for temporary 1/2 corner.

No trace or evidence of old corner of secs. 16, 17, 20 and 21; set stake for temporary corner.

PAYSON FOREST RESERVE BOUNDARY.

RANDOM LINES.

Chains.	Thence I continue N. 0°03' W. between secs. 16 and 17.
40.00	No trace of $\frac{1}{2}$ corner; set stake for temporary $\frac{1}{2}$ sec. corner.
80.00	No trace or evidence of old corner of secs. 8, 9, 16 and 17; set stake for temporary corner.
40.00	Thence I continue N. 0°03' W. between secs. 8 and 9.
40.00	No trace of $\frac{1}{2}$ corner; set stake for temporary $\frac{1}{2}$ sec. corner.
80.00	No trace of evidence of old corner of secs. 4, 5, 8 and 9; set stake for temporary corner.
40.00	Thence I continue N. 0°03' W. between secs. 4 and 5.
40.00	No trace of $\frac{1}{2}$ corner; set stake for temporary $\frac{1}{2}$ sec. corner.
82.82	Intersect N. boundary of township 8.02 chs. E. of corner of secs. 32 and 33.
<p>Note: The original notes call for lengths of 80.00 chs. between secs. 20 and 21, 16 and 17, 8 and 9; and 80.10 between secs. 3 and 4, which according to my measurement (82.82, 80.10) 2.72 chs. is by proportioning measurement of 4 miles gives 68 lks. long to the mile over original reported distance, which distance agrees fairly well with present position of majority of E. and W. fences in valley to the west. The original notes between secs. 3 and 4 call for stake or post for corner of secs. 3 and 4, and same is written as true line north. The corner is not called a C.C., but owing to laws existing at that time and from fact that corner is called corner of secs. 3 and 4, the assumption is that original corner was a C. C., though no distance connecting it with or course to secs. 32 and 33 is given.</p> <p>Note: In order to get some guide for position E. and W. of corners on lines between secs. 20 and 21, 16 and 17, 8 and 9, 3 and 4, I run random lines west between secs. 5 and 8, 8 and 17, 17 and 20, and arrange corners on a common straight line to conform as nearly as possible with present existing conditions of fences in sections to the west, which gives a bearing of said north line of N. 0°06' W. and notes follow accordingly the random lines west being written thereafter to show the conditions as my surveys leave them.</p>	
T. 12 S., R. 1 E.	
From corner of secs. 20, 21, 28 and 29, I run N. 0°06' W. on true line between secs. 20 and 21, over level open valley land.	
21.67	Wire fence, bears E. and W., joins N. and S. fence 60 lks. E.
38.92	Fence bears E. and W.; 20 lks. E. of line fence joins from N.; 50 lks. E. of line fence corners and turns to E.
40.34	Set limestone 18x14x10 ins., 12 ins. in ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face, and dig pits 18x18x12 ins. deep N. and S. of corner, 3 ft. dist., and raise mound of stone covered with earth, 4 ft. base, 3 ft. high, W. of corner.
58.70	Fence bears E. and W.
60.51	Set limestone 20x12x8 ins., 15 ins. in ground for 1/16 sec. corner, marked 1/16 on W. face and raise mound of stone, 4 ft. base, 3 ft. high, W. of corner.
64.30	Fence bears E. and W.
66.00	Fence bears E. and W.
68.35	Wood road bears E. and W.
69.40	Irrigation ditch, 4 lks. wide, 8 ins. deep, course W.

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 1 E.

Chains.

- 79.35 Line of fence post bears E. and W., 20 lks. E. of line corners and turns N.
80.40 Set sandstone 26x12x7 ins., 18 ins. in ground, for W. C. to corner of secs. 16, 17, 20 and 21, 28 lks. S. of true point, marked W. C. on S. face, 4 notches on E. and 3 on S. faces, and raise mound of stone, 4 ft. base, 3 ft. high, W. of corner.
80.68 Point for true corner falls in flat wash, 10 lks. wide, course S. W.
Land, gently rolling.
Soil, gravelly and sandy, 3rd and 4th rate.
Timber, none.

October 15, 1904.

Random Check Line.

- October 17: From true point for corner of secs. 16, 17, 20 and 21, which is 28 lks. N. of W. C., I run
S. 89°40' W. between secs. 17 and 20, parallel with line of fence to the W.
22.50 Fence E. and S. at 20 lks. S. corners and turns W.
23.00 Machine house E. 4 lks. dist.
28.50 Fence bears N. and S. 30 lks. S. corners and turns E.
29.50 Road bears N. and S.
30.20 Fence bears N. and S.; fence from W. joins at 30 lks. S.
33.00 House bears N. 2½ lks.
47.50 Fence bears N. 14°46' W. and S. 14°46' E.; enter railroad right of way.
47.90 Center of S. P., D. & S. L. R. R. track, bears E. 14°46' W. and S. 14°46' E.
48.32 Fence bears N. 14°46' W. and S. 14°46' E. Leave E. R. right of way, enter field; fence from W. joins 20 lks. S.
80.05 30 lks. S. is corner of fence bearing N. 89°40' E. and N. 0°30' W. No evidence of old corner.
Land, level.
Soil, sub-gravelly and sandy loam, 2nd and 3rd rate.
Timber, none.

October 17, 1904.

T. 12 S., R. 1 E.

- October 19: From true point for corner of secs. 16, 17, 20 and 21, which is 28 lks. N. of W. C. I run
East on true line between secs. 16 and 21, over rolling rocky prairie, gently sloping W.
Note: From measurements previously shown on E. and W. boundaries of sec. 21 it is evident that this line will fall out of limits on E. and I therefore run directly as true line.
20.15 Irrigation ditch, 3 lks. wide, 8 ins. deep, course S. W.
40.10 Set limestone 26x12x8 ins., 18 ins. in the ground for sec. corner, marked 1 on N. side, and build mound of stone, 4 ft. base, 3 ft. high, N. of corner.
46.00 Begin ascent, bears N. 20° E. and S. 20° W.; enter scattering cedar timber.
77.15 Drag trail, bears N. 20° E. and S. 20° W.
80.20 Intersect N. and S. sec. line 69 lks. N. of corner of secs. 15 and 22, at which intersection I set limestone 20x12x6 ins., 15 ins. in ground, for

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 1 E.

Chains. C. C. of secs. 16 and 21, marked C. C. on W. face with 3 notches on S. and W. faces, from which:
 A cedar, 12 ins. diam., bears E. 48° W., 18 lks. dist., marked C C T 12 S R 1 E S 16 B T
 A cedar, 6 ins. diam., bears S. $23^{\circ}45'$ W., 56 lks. dist., marked C C T 12 S R 1 E S 21 B T
 Corner falls on W. end of ridge 1000 ft. above valley to the west.
 Land, gently rolling and mountainous.
 Soil, gravelly and sandy and rocky, 4th rate.
 Timber, cedar, scattering.

October 19, 1904.

October 17: From true point for corner of secs. 16, 17, 20 and 21, which is 78 lks. N. of W. C., I run

N. $0^{\circ}06'$ W. on true line between secs. 16 and 17, over rolling rocky prairie land.

13.90 Draw, 5 lks. wide, course W.

20.17 Set limestone $18 \times 12 \times 10$ ins., 12 ins. in ground, for $1/16$ sec. corner, marked $1/16$ on W., and build mound of stone, 3 ft. base, 2 ft. high, W. of corner. Four lks. E. of corner is limestone boulder $8 \times 8 \times 3$ ft. above ground.

40.34 Set limestone $20 \times 12 \times 8$ ins., 15 ins. in ground, for $1/4$ sec. corner, marked $1/4$ on W. face, and build mound of stone, 3 ft. base, 2 ft. high, W. of corner.

59.50 Draw 8 lks. wide, course W.

80.68 Set limestone $26 \times 16 \times 12$ ins., 18 ins. in ground for corner of secs. 8, 9, 16 and 17, marked with 4 notches on E. and W. faces, and build mound of stone, 3 ft. base, 2 ft. high, E. of corner.

Land, gently rolling.

Soil, rocky and gravelly, 4th rate.

Timber, none.

Random Check Line.

From corner of secs. 8, 9, 16 and 17, I run S. $89^{\circ}37'$ W. parallel to line of fence to the west, over nearly level prairie valley.

Fence bears E. E. and C. W.; enter field.

Fence bears E. and C.

Road bears E. and C.

Fence bears E. and C.

Telephone line bears E. and C.

No trace of old $1/4$ sec. corner.

Fence bears E. and C.

Fence bears E. and C.; fence from E. joins 40 lks. S.

Fence bears E. and C.

Center of S.P., D.A. & S.E. R. R. track bears

E. $14^{\circ}46'$ W. and S. $14^{\circ}46'$ E.

Fence bears E. $14^{\circ}46'$ W. and S. $14^{\circ}46'$ E.

Enter swamp bears E. and S.

Fence bears E. and C. No evidence of old corner.

Land, level.

Soil, sandy loam, 2nd and 3rd rate.

Timber, none.

One-half day snow and cloudy.

October 17, 1904.

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 1 E.

Chains. October 18: From corner of secs. 8, 9, 16 and 17,
I run
East on true line between secs. 9 and 16, over
gently rolling rocky prairie, gradually ascending.
40.15 Set limestone 18x12x8 ins., 12 ins. in ground, for
1/2 sec. corner, marked 1/2 on N. face, and build
mound of stone, 3 ft. base, 2 1/2 ft. high, N. of
corner; pits impracticable.
48.00 Begin abrupt ascent, bears N. 20° E. and S. 20° W.
60.00 Enter scrub oak and appleberry brush.
75.40 Steep side hill draw, course N. W.
80.30 Intersect N. and S. sec. line 133 lks. N. of corner
of secs. 10 and 15, at which intersection I set
limestone 22x18x8 ins., 16 ins. in the ground for
C. C. of secs. 9 and 16, marked C. C. on W. face.
4 notches on S. and 3 on W. faces, and build
mound of stone, 3 ft. base, 2 1/2 ft. high, W. of
corner; pits impracticable. Corner falls on
N. W. slope of spur 1200 ft. above valley below.
Land, rolling and mountainous.
Soil, rocky, 4th rate.
Timber, none.

October 18, 1904.

October 15: From corner of secs. 8, 9, 16 and 17,
I run
N. 0°06' W. on true line between secs. 8 and 9,
over rolling open valley land.
10.00 Fence bears N. E. and S. W.
39.70 Irrigation ditch, 8 lks. wide, 2 ins. deep, course
W.
39.90 Fence bears E. and W.
40.34 Set limestone 20x12x8 ins., 15 ins. in ground, for
1/2 sec. corner and dig pits 18x18x12 ins. deep
N. and S. of corner, 3 ft. dist.; raise mound of
earth and stone, 3 ft. base, 2 ft. high, W. of
corner.
51.20 Old ditch, 8 lks. wide, 5-foot banks, course S. W.
64.00 Wash, 5 lks. wide, course S. W.
67.00 Wash, 5 lks. wide, course S. W.
80.68 Set limestone 22x14x10 ins., 16 ins. in ground,
for corner of secs. 4, 5, 8 and 9, marked 4
notches on E. and 5 on S. faces, and build mound
of stone, 4 ft. base, 3 ft. high, W. of corner.
Land, gently rolling.
Soil, gravelly and rocky. 3rd and 4th rate.
Timber, none.

October 15, 1904.

October 14: From corner of secs. 4, 5, 8 and 9,
I run
East on true line between secs. 4 and 9 over gently
rolling prairie land.
12.20 Wash, 5 lks. wide, course S. W.
29.20 Old ditch, 8 lks. wide, 4 ft. banks, course S. W.
32.60 Wash, 8 lks. wide, course S. W.
39.65 Wash, 8 lks. wide, course S. W.
40.22 1/2 Set limestone 18x12x8 ins., 12 ins. in the ground
for 1/2 sec. corner, marked 1/2 on N. face and build
mound of stone, 3 ft. base, 2 ft. high, N. of
corner; pits impracticable.
43.50 Rocky wash, 10 lks. wide, course S. W.
47.60 Irrigation ditch, 4 lks. wide, 4 ins. deep, course
S. W.
51.60 Rocky wash, 10 lks. wide, course S. W.
52.70 Old road, bears N. 20° E. and S. 20° W.
55.00 Begin ascent, bears N. 20° E. and S. 20° W.
69.00 Ascend becomes more abrupt; enter scrub oak brush.

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 1 E.

Chains.

80.45 Intersect N. and S. sec. line 210 lks. N. of true point for corner of secs. 3 and 10, which latter is 20 lks. South of W. C., at which intersection I set limestone 18x12x8 ins., 12 ins. in ground, for C. C. of secs. 4 and 9, marked C. C. on W. face, with 5 notches on S. and 3 on W. faces, and build mound of stone, 4 ft. base, 3 ft. high, W. of corner. Corner falls on W. slope 1000 ft. above valley to W.
Land, rolling and mountainous.
Soil, rocky and gravelly, 4th rate.
Timber, scrub oak brush on east end of mile.
Note: This line between secs. 4 and 5 was simply run to ascertain distance by which proportion was made and from corner of secs. 4, 5, 8 and 9 is 80.78 chs. No corners were set thereon, as it does not otherwise affect my survey.
October 14, 1904.

October 18: From the $\frac{1}{2}$ sec. corner between secs. 9 and 16 I run
N. 0°04' W. on random line through center of sec. 9.
40.34 Set temporary stake for center of sec. 9
80.74 Intersect N. boundary of sec. 9 at the $\frac{1}{2}$ sec. corner between secs. 4 and 9.
Thence I run
S. 0°04' E. on true line through center of sec. 9, over rolling rocky prairie land.
11.85 Irrigation ditch (stone lined), 2 lks. wide, 1 ft. deep, course S. E.
18.40 Draw, 10 lks. wide, course W.
40.37 Set stake for temporary center corner on true N. and S. line.
80.74 The $\frac{1}{2}$ sec. corner between secs. 9 and 16.
Land, rolling.
Soil, gravelly and rocky, 4th rate.
Timber, none.
October 18, 1904.

October 19: From the $\frac{1}{2}$ sec. corner between secs. 8 and 9 I run
East on true line through center of sec. 9, over gently rolling prairie.
15.40 Corner of fence 40 lks. S. of line bears S.W. and W.
15.61 Irrigation ditch, 3 lks. wide, 1 ft. deep, course S. W.
18.10 Old road bears N. E. and S. E.; leave flat begin gradual ascent bears E. and S. 30° W.
40.20 Intersect true N. and S. center line 1 lk. south of stake at half-way point, at which intersection I set iron U. S. Forest Reserve Boundary Post No. 11, 32 ins. in ground and build mound of stone, 3 ft. base, 1 ft. high, around same for center of sec. 9, marked:
Center Sec. 9, around beveled rim of cap.
RESERVE in S. E. quadrant, and build mound of stone, 4 ft. base, 3 ft. high, W. of corner.
64.50 Begin abrupt ascent, bears N. and S., over slide rock and enter oak brush.
80.40 Intersect N. and S. sec. line 180 lks. N. of true point for $\frac{1}{2}$ sec. corner on W. boundary of sec. 10, which latter is 70 lks. N. of W. C.
The above intersection falls on steep side of pinnacle rock; impossible to set corner at intersection; therefore at 20 lks. W. of true point.
80.20 Set iron U. S. Forest Reserve Boundary Post No. 10, 30 ins. in ground for W. C. C. C. on E. bound-

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 1 E.

Chains.

dary sec. 9, marked:

W C C C on top of cap, west of center

T 12 S S 1 E $\frac{1}{2}$ S 9 around beveled edge of cap on W. side, and build mound of stone, 4 ft. base, 3 ft. high, W. of corner.

Land, rolling and mountainous.

Soil, rocky and gravelly, 4th rate.

Timber, scrub oak brush on east end of mile.

From the $\frac{1}{2}$ sec. corner between secs. 9 and 16,
I runS. $0^{\circ}04'$ E. through center of sec. 16, over rolling rocky prairie.

40.34 Set stake for temporary center corner of sec. 16.

60.51 Set stake for temporary $\frac{1}{2}$ sec. corner.80.70 Intersect the $\frac{1}{2}$ sec. corner between secs. 16 and 21.

Thence I run

N. $0^{\circ}04'$ W. through center of sec. 16 on true line, over rolling rocky prairie.9.00 Irrigation ditch, 3 lks. wide, 3 ins. deep, course S. 70° W.

11.40 Wood road, bears E. and W.

16.30 Draw, 10 lks. wide, 12 ft. banks, course S. 70° W.20.17 $\frac{1}{2}$ Set iron U. S. Forest Reserve Boundary Post No. 12, 24 ins. in ground and build mound of stone, 5 ft. base, $1\frac{1}{2}$ ft. high, around same for $1/16$ sec. corner sec. 16, marked $1/16$ S. 16 on beveled edge of cap on W. face;

RESERVE in N.E., S.E. and S.W. quadrants.

39.10 Draw, 5 lks. wide, course W. 80° W.40.35 Set limestone $26 \times 6 \times 5$ ins. in ground for center $\frac{1}{2}$ sec. corner, marked C. $\frac{1}{2}$ on W. face, and build mound of stone, 4 ft. base, 3 ft. high, W. of corner; pits impracticable.75.20 Swail draw, course W. 80° W.80.70 The $\frac{1}{2}$ sec. corner between secs. 9 and 16.

Land, rolling, rocky prairie.

Soil, rocky and gravelly, 4th rate.

Timber, none.

From the $1/16$ sec. corner on W. boundary of S. W. $\frac{1}{4}$ of sec. 16, I runEast on random line through center of S. W. $\frac{1}{4}$ of sec. 16.20.10 Set stake for temporary $\frac{1}{16}$ sec. corner.40.12 Intersect the $1/16$ sec. corner on center line of sec. 16, iron post No. 12.Thence from this $\frac{1}{2}$ sec. corner I runWest on true line through center of S. W. $\frac{1}{4}$ of sec. 16.20.06 Set iron U. S. Forest Reserve Boundary Post No. 13, 24 ins. in ground, for $1/16$ sec. corner in center of S. W. $\frac{1}{4}$ of sec. 16, marked: $1/16$ in N. W. quadrant

RESERVE in S. E. quadrant, and build mound of

stone, 4 ft. base, $1\frac{1}{2}$ ft. high, around post;mound of stone, 4 ft. ~~high~~ base, 3 ft. high, N. of corner.28.50 Wash, 5 lks. wide, course S. 60° W.40.12 The $1/16$ sec. corner on W. side of S. W. $\frac{1}{4}$ of sec. 16.

October 19, 1904.

October 20: From $\frac{1}{2}$ sec. corner between secs. 16 and 21 I runS. $0^{\circ}04'$ E. on random line through center of sec. 21.20.17 Set stake for temporary $\frac{1}{16}$ sec. corner.

Volume # R0329

Note: In setting the numerous corners of this reserve, I failed to take the bearing and distance between corners Nos. 13 and 14, which are inter-visible and over level prairie.

J. P. Walker.

DAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 1 E.

Chains.
40.34 Set stake for temporary center of sec. 21.
80.64 Intersect S. boundary of section, 10 lks. E. of the
1/2 sec. corner between secs. 21 and 28.
Thence from the 1/2 sec. corner between secs. 21 and
28, which is iron post No. 16, I run
North on true line through center of sec. 21, over
rolling prairie land.
28.40 Draw 10 lks. wide, course N., into flat.
39.20 Draw, 5 lks. wide, course W., into flat, thence
along steep W. slope of mountain near foot.
40.32 Set limestone 20x12x6 ins., 15 ins. in ground, for
center of sec. 21, marked C. 1/2 on W. face, and
build mound of stone, 4 ft. base, 3 ft. high, W.
of corner.
47.60 Base of hill bears N. 10° E. and S. 10° W.; reenter
gently rolling prairie.
57.30 Draw, 5 lks. wide, course S. 70° W.
59.40 Old fence bears E. and W.
60.48 Set iron U. S. Forest Reserve Boundary Post No. 15,
24 ins. in ground for 1/16 sec. corner, and build
mound of stone, 4 ft. base, 1 1/2 ft. high, around
same, marked 1/16 S. 21 in N. W. quadrant;
RESERVE in N. W., N. E. and S. E. quadrants; mound
of stone 4 x 3 ft. W. of corner.
80.64 The 1/2 sec. corner between secs. 16 and 21.
Land, rolling.
Soil, rocky prairie.
Timber, none.

From the 1/16 sec. corner on West bound-
ary of N. W. 1/4 of sec. 21 I run
East on a random line through center of N. W. 1/4 of
sec. 21.

20.05 Set stake for temporary 1/16 sec. corner.
40.11 Intersect N. and S. line through center of sec. at
the 1/16 sec. corner, post 15.
Thence I run
West on true line through center of N. W. 1/4 sec. of
sec. 21, over sage covered prairie.
20.05 1/2 Set iron U. S. Forest Reserve Boundary Post No. 14,
24 ins. in ground and build mound of stone, 4 ft.
base, 1 1/2 ft. high, around same for 1/16 sec. cor-
ner, at center of N. W. 1/4 of sec. 21, marked:
1/16 S. 21 in N. W. quadrant
RESERVE in N. E. quadrant, and build mound of
stone, 4 1/2 ft. base, 3 ft. high, N. of corner.
27.80 Old road, bears N. E. and S. W.
40.05 Fence, bears N. and S.
40.11 The 1/16 sec. corner on W. side of the N. W. 1/4 of
sec. 21.

October 20, 1904.

October 21: From corner of secs. 21, 22, 27 and 28,
previously described, I run
East on a random retracement line between secs. 22
and 27.

40.90 Intersect N. and S. 1/2 sec. line 4 1/2 lks. E. of 1/2 sec.
corner, which is a limestone 14x6x8 ins. above
ground, marked 1 on N. face, as described in notes
of General Land Office. I build mound of stone,
3 ft. base, 2 ft. high, N. of corner.
Thence I run
N. 89°25' W. on true retracement line between secs.
22 and 27, descending through oak and appleberry
brush.
16.40 Draw, 10 lks. wide, course N. 30° W., base of 150-
foot descent.
21.00 Side hill draw, course N. 20° W.; begin ascent along

DAYTON FOREST RESERVE BOUNDARY.

T. 12 N., R. 1 E.

Chains.	steep E. slope
26.40	Top of 50-foot ascent, bears E. 80° W. and S. 80° E.
40.90	Corner of secs. 21, 22, 27 and 28.
	Thence from $\frac{1}{2}$ sec. corner between secs. 22 and 27
	I run
	East on random retracement line between east halves
	of secs. 22 and 27, ascending.
39.60	Intersect N. and S. sec. line 19 lks. E. of corner
	of secs. 22, 23, 26 and 27, which is a limestone
	12x6x10 ins. above ground, correctly marked as
	described in notes of General Land Office, wit-
	nessed by small mound of stone W. of corner,
	which I rebuild to 4 ft. base, 3 ft. high.
	At a point 9 lks. east of this corner I set iron
	U. S. Forest Reserve Boundary Post No. 18, 30 ins.
	in ground and build mound of stone, 4 ft. base,
	1 ft. high, around same for witness corner to
	corner of secs. 22, 23, 26 and 27, marked:
	W C on top of cap
	T 12 S S 23 in N. E. quadrant
	R 1 E S 26 in S. E. quadrant
	S 27 in S. W. quadrant
	S 22 in N. W. quadrant
	RESERVE in N. W. and N. E. quadrants, with 2
	notches on S. and E. sides.
	Thence I run
	S. 89°44' E. on true retracement line between secs.
	22 and 27, descending through clusters of oak
	brush.
10.80	Head of draw, course S. W., base of 1000 ft. descent.
	thence along S. slope of spur.
18.80	Top of ridge bears E. 70° E. and S. 70° E.: begin
	descent.
39.20	The $\frac{1}{2}$ sec. corner between secs. 22 and 27.
	Land, mountainous.
	Soil, rocky and gravelly, 4th rate.
	Timber, scrub oak and appleberry brush.
<hr/>	
	At the corner of secs. 22, 23, 26 and 27, I set off
	10°44'15" S. on declination arc and at 15°16'
	before noon, 1.p.m., observe sun on meridian and
	obtain a reading of 39°45' on latitude arc.
	From corner of secs. 22, 23, 26 and 27 previously
	described, I run
	East on a random retracement line between secs.
	23 and 26, ascending.
41.20	Intersect N. and S. $\frac{1}{2}$ sec. line 10 lks. S. of $\frac{1}{2}$
	sec. corner between secs. 23 and 26, which is a
	limestone 15x10x6 ins., being marked $\frac{1}{2}$ on N.
	face, but insecurely set, I set 12 ins. in ground
	in original position and build mound of stone, 3 $\frac{1}{2}$
	ft. base, 2 $\frac{1}{2}$ ft. high, N. of corner.
	Thence from this $\frac{1}{2}$ sec. corner I run
	S. 89°51' E. on true retracement line between
	west halves of secs. 23 and 26, descending through
	oak brush.
9.20	Draw, 5 lks. wide, course S. W., base of 200 ft.
	descent, bears E. 20° E. and S. 20° E., thence
	along steep S. slope of ridge.
38.70	Top of ridge, bears E. E. and S. W., begin descent.
41.11	Boundary Post No. 18.
41.20	The corner of secs. 22, 23, 26 and 27.
	Thence from the $\frac{1}{2}$ sec. corner between secs. 23 and 26
	I run
	East on random retracement line between east halves
	of secs. 23 and 26, ascending through dense oak
	brush.
40.20	Intersect N. and S. sec. line 17 lks. S. of corner

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 1 E.

Chains	<p>of secs. 23, 24, 25 and 26, which is a limestone 10x8x10 ins., above ground, correctly marked with 1 notch on E. and 2 on S. faces, and build mound of stone, 3½ ft. base, 2½ ft. high, W. of corner.</p> <p>Note: As corner falls in obscure place I set iron post on next mile to the east.</p> <p>Thence from corner of secs. 23, 24, 25 and 26 I run S. 89°45' W. on true retracement line, between secs. 23 and 26.</p>
.60	Draw, 10 lks. wide, course S.
4.50	Draw, 10 lks. wide, course S.
6.90	Draw, 10 lks. wide, course S. 20° E.; begin ascent.
20.20	Cross backbone of spur and continue gradual ascent along S. slope of ridge.
27.60	Head of draw, course S. 20° E.
3	Top of 500-foot ascent on ridge, bears N. 60° E. and S. 60° W. Begin descent.
40.20	The ¼ sec. corner between secs. 23 and 26, 150 ft. below top of ridge.
	Land, mountainous.
	Soil, rocky and gravelly, 4th rate.
	Timber, scrub oak brush, very dense.
	October 21, 1904.
	October 22: From corner of secs. 23, 24, 25 and 26, I run
	East on random retracement line between secs. 24 and 25.
39.90	Intersect N. and S. ¼ sec. line 20 lks. S. of ¼ sec. corner, which is a limestone 10x6x5 ins., properly marked, but being undersize I replace with a limestone 18x12x3 ins., set 12 ins. in ground, for ¼ sec. corner marked ¼ on N. face, and build mound of stone 3½ ft. base, 2½ ft. high, N. of corner.
	Thence from ¼ sec. corner between secs. 24 and 25 I run
	S. 89°43' W. on true retracement line between west halves of secs. 24 and 25, descending.
9.90	Draw, 5 lks. wide, course S. W., base of 200-foot descent, bears N. 30° E. and S. 30° W.
13.60	Old road bears N. 30° E. and S. 30° W.
14.40	Dry branch, 10 lks. wide, course S. 30° W.
16.90	Begin ascent, bears N. E. and S. W.
26.15	Side hill draw, 10 lks. wide, course S.
30.00	Top of 90-foot ascent bears N. 70° E. and S. 70° W.; thence along E. slope.
33.40	Set iron U. S. Forest Reserve Boundary Post No. 19, 12 ins. in ground to rock and build mound of stone 6 ft. base, 3 ft. high, around same for marking of reserve boundary line, marked: RESERVE in N. W. and N. E. quadrants.
	On bare south slope of hill, thence descending, bears N. 80° W. and S. 80° E.
39.90	The corner of secs. 24, 25, 26 and 27.
	Thence from the ¼ sec. corner between secs. 24 and 25 I run
	East on random retracement line between east halves of secs. 24 and 25.
40.20	Intersect N. and S. sec. line 9 lks. S. of corner of secs. 24 and 25 on E. boundary of township, which is a limestone 6x12x8 ins. above ground, marked with 4 notches on N. and 2 on S. faces, with small mound of stone on W., which I enlarge to 3½ ft. base, 2½ ft. high.
	Thence from corner of secs. 24 and 25 I run
	S. 89°52' W. on true retracement line between secs. 24 and 25.

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 1 E.

Chains.
.09

I set iron U. S. Forest Reserve Boundary Post No. 20, 30 ins. in the ground, and build mound of stone, 3 ft. base, 1 ft. high, around same for witness corner to corner of secs. 24 and 25, marked:
W C on top of cap
T 12 S S 25 in S. W. quadrant
R 1 E S 24 in N. W. quadrant
RESERVE in N. W., N. E. and S. E. quadrants, with 2 notches on S. and 4 on N. faces.
1.00 Draw 15 lks. wide, course S. 30° E., begin ascent.
24.20 Top of 400-foot ascent bears N. E. and S. 80° W.; thence along steep S. slope.
26.00 Begin descent bears N. W. and S. 80° E.
40.20 The $\frac{1}{4}$ sec. corner between secs. 24 and 25, 150 ft. below summit.
Land, mountainous.
Soil, rocky and gravelly, 4th rate.
Timber, dense scrub oak brush.

At corner of secs. 24 and 25 on east boundary of township I set off 11°05'30" S. on declination arc and at 15^m25^s before noon, 1.m.t., observe sun on meridian and obtain a reading of 39°45' on latitude arc.

T. 12 S., R. 2 E.

From corner of secs. 24 and 25 on east boundary of T. 12 S., R. 1 E., I run South on random retracement line along E. boundary of sec. 25.
13.60 The $\frac{1}{4}$ sec. corner on W. boundary of sec. 30, T.12 S., R. 2 E., bears E. 77 lks. dist., which is a sandstone 24x16x10 ins., set 6 ins. in ground. I re-set in original position 18 ins. in ground, marked $\frac{1}{4}$ on E. face, from which:
An oak, 4 ins. diam., bears S. 49° E., 49 lks. dist., marked RES $\frac{1}{4}$ S 30 R T
Thence from this $\frac{1}{4}$ sec. corner I run N. 3°15' W. on true line along E. boundary of sec. 25, through dense oak brush.
4.60 East end of ridge sloping to east.
12.10 Draw, 15 lks. wide, course S. 30° E.
13.60 Corner of secs. 24 and 25 on east boundary of T. 12 S., R. 1 E.
From the $\frac{1}{4}$ sec. corner on west boundary of sec. 30, T. 12 S., R. 2 E., I run South on random retracement line along W. boundary of south half of sec. 30, through dense oak brush.
40.05 Intersect S. boundary of sec. 30 4 lks. east of the corner of secs. 30 and 31 on west boundary of T. 12 S., R. 2 E., which is a red sandstone 5x8x7 ins. above ground, marked 5 notches on N. and 1 on E. and build mound of stone 3 $\frac{1}{2}$ ft. base, 2 ft. high, E. of corner.
Thence from true corner of secs. 30 and 31 I run N. 0°03' W. on true retracement line along W. boundary of sec. 30, gradually ascending through oak brush.
13.45 The $\frac{1}{4}$ sec. corner on west boundary of sec. 25 bears W. 54 lks. dist., and is a red sandstone 6x6x5 ins. above ground, marked $\frac{1}{4}$ on W. face; I build mound of stone, 3 ft. base, 2 ft. high, W. of corner.
19.00 Top of ridge 100 ft. above sec. corner bears E. and W.; begin descent.
26.50 Swail draw course S. 70° E., at base of 150-foot descent, bears N. 80° W. and S. 80° E.

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 2 E.

Chains.

40.05 The $\frac{1}{2}$ sec. corner on W. boundary of sec. 30.
Land, hilly.
Soil, gravelly and loam, 3rd and 4th rate.
Timber, very dense scrub oak brush.
October 22, 1904.

October 23: At corner of secs. 30 and 31 on west boundary of T. 12 S., R. 2 E., I set off 39°44' on latitude arc and 11°21'30" S. on declination arc and at 8 a.m., a.s.t., I run South on random retracement line along W. boundary of sec. 31.

39.90 Intersect $\frac{1}{2}$ sec. line projected 3 lks. W. of the $\frac{1}{2}$ sec. corner on west boundary of sec. 31, which is a sandstone 14x8x6 ins., properly set and marked, stone being cracked I replace with a sandstone 18x14x8 ins., set 12 ins. in ground for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on E. face, from which:

A cedar, 18 ins. diam., bears N. 10°30' E., 109 lks. dist., marked RES $\frac{1}{2}$ S 31 P T

No other trees available; I dig pits 18x18x12 ins. deep N. and S. of corner, 3 ft. dist., and raise mound of earth, 2 $\frac{1}{2}$ ft. base, 2 ft. high, E. of corner; old pits in evidence and reopened.

Thence from $\frac{1}{2}$ sec. corner I run

N. 0°03' W. on true retracement line along W. boundary of sec. 31, along W. slope of spur.

13.47 Corner of secs. 25 and 36 on E. boundary of T. 12 S., R. 1 E., bears W. 33 lks. dist., which is a limestone 4x12x5 ins., above ground, marked 5 notches on N. and 1 on S. sides, with mound of stone on W. From the corner:

A cedar, 8 ins. diam., bears S. 32°30' W., 11 lks. dist., marked T 12 S R 1 E S 36 B T

28.50 Head of draw, course S. W. Begin ascent.

39.84 I set iron U. S. Forest Reserve Boundary Post No. 21, 30 ins. in the ground, and build mound of stone, 3 $\frac{1}{2}$ ft. base, 1 ft. high, around same for witness corner of secs. 30 and 31, marked:

W C on top of cap

T 12 S S 30 in W. E. quadrant

R 2 E S 31 in S. E. quadrant

RESERVE in W. E. and S. E. quadrants, with 5 notches on N. and 1 on E. faces.

39.90 At corner of secs. 30 and 31 on West boundary of T. 12 S., R. 2 E.

Thence from the $\frac{1}{2}$ sec. corner on W. boundary of sec. 31, T. 12 S., R. 2 E., I run

South on random retracement line along south half of west boundary of sec. 31.

40.10 Intersect south boundary of T. 12 S., R. 2 E., 1 $\frac{1}{2}$ lks. E. of corner of Tps. 12 and 13 S., R. 2 E., which is a sandstone 6x10x6 ins. above ground, marked for C. C. from E., with 6 notches on N., E., and S. faces, C. C. on E. face.

(Notes of General Land Office do not state that this is a C. C. The range line north of here is, as my notes show a double line and as President's proclamation calls for W. boundary of Sec. 30 and 31, T. 12 S., R. 2 E., I run this line, noting distances and fallings from this true line of corners marked for E. boundary of secs. 25 and 36, T. 12 S., R. 1 E.)

Thence from true C. C. I run

N. 0°01' E. on true retracement line along W. boundary of sec. 31, over sage flat in Foote's Canyon.

.05 I set iron U. S. Forest Reserve Boundary Post No. 22, 24 ins. in ground, and build mound of stone, 4 ft. base, 1 $\frac{1}{2}$ ft. high, around same for witness cor-

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 2 E.

Chains.	ner to closing corner of Tps. 12 and 13 S., R. 2 E., marked: W C C C on top of cap, east of center T 12 S S 31 in N. E. quadrant R 2 E S 6 in S. E. quadrant RESERVE in N. E. quadrant
6.00	Begin ascent, leave sage flat, enter dense oak brush, bears N. 30° E. and S. 30° W.
13.80	1/2 sec. corner on east boundary of sec. 36 bears W. 15 lks. dist., which is a limestone 6x8x8 ins., set 2 ins. in ground, which I replace with a limestone 18x12x6 ins., set 6 ins. in shale limestone 18x12x6 rock and build mound of stone, 2 1/2 ft. base, 1 ft. high, around same for 1/2 sec. corner, marked 1/2 on W. face, and build mound of stone, 2 ft. base, 2 ft. high, W. of 1/2 sec. corner.
31.80	Top of 400-foot ascent, bears N. 20° E. and S. 20° W., on backbone of ridge.
40.10	The 1/2 sec. corner on W. boundary of sec. 31. Land, mountainous. Soil, rocky, 4th rate. Timber, scattering occasional cedar (no well defined line) and scrub oak brush.

At C. C. of Tps. 12 and 13 S., R. 2 E., I set off
11°26'30" on declination arc and at 15^m34^s before
noon, l.m.t., observe sun on meridian and obtain a
reading of 39°43'30" on latitude arc.

GENERAL DESCRIPTION T. 12 S., R. 1 E.

East half of township is composed of summit and west
and south slope of Ucho range of mountains, with
maximum elevation of 6000 ft. above valley to
west and is principally covered with small oak
brush, mountain mahogany and appleberry brush,
with some scattering cedar timber. The west
half of township is level valley, the 5th and 6th
tiers of sections being largely under cultivation,
being irrigated from streams from mountains on
east and from Salt Creek from the southeast.
Lime kilns are being operated in secs. 28 and 33.
Mean magnetic declination for township is 16°40' E.

South Boundary T. 12 S., R. 2 E.

	From C. C. of Tps. 12 and 13 S., R. 2 E., at south- west corner of T. 12 S., R. 2 E., previously des- cribed, I run S. 89°45' E. on random retracement line between secs. 6 and 31.
66.03	Set stake for temporary 1/2 sec. corner, no trace of old 1/2 corner being found.
107.38	Intersect N. and S. sec. line 22 lks. N. of corner of secs. 5, 6, 31 and 32, which is a white gran- ite 15x8x10 ins. ^{89m} ins. in ground. I reset same stone 10 ins. in ground, marked correctly with 1 notch on W. and 5 on E. faces, and I build mound of stone, 3 ft. base, 2 ft. high, W. of corner. Thence from true corner of secs. 5, 6, 31 and 32, I run N. 89°38' W. on true retracement line between secs. 6 and 31, over rolling bench, through oak and sage brush.
.07	I set iron U. S. Forest Reserve Boundary Post No. 23, 30 ins. in ground, for W. C. to corner of secs. 5, 6, 31 and 32 marked:

PAYSON FOREST RESERVE BOUNDARY
South Boundary T. 12 S., R. 2 E.

Chains	W. C. on top of cap T 12 S S 32 in N. E. quadrant R 2 E S 5 in S. E. quadrant T 13 S S 6 in S. W. quadrant S 31 in N. W. quadrant RESERVE in N. W. and N. E. quadrants, with 1 notch on W. and 5 on E. sides, and build mound of stone, 4 ft. base, 1 ft. high, around post.
7.30	Begin descent, bears N. and S.
12.80	Draw, 8 lks. wide, course S., base of 50-foot descent; begin ascent.
31.30	Top of 120-foot ascent on ridge, bears N. and S.; begin descent.
39.81	At the correct point for $\frac{1}{2}$ sec. corner by proportional distance (original distances reported 40.27 and 68.03 respectively) I set granite 22x14x8 ins., 15 ins. in ground for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on N. face and build mound of stone, 3 ft. base, 2 ft. high, N. of corner.
44.00	Draw, 8 lks. wide, course S., base of 100-foot gradual descent; begin ascent through dense oak and some scattering cedar timber.
51.30	Top of 80-foot ascent; leave scattering cedar timber; begin descent on S. slope of ridge.
60.80	Draw, 5 lks. wide, heads 5.00 chs. N. of line, course S.; base of 200-foot abrupt descent.
64.83	Build mound of stone, 3 ft. base, 2 ft. high, for line marking on prominent summit; begin descent, bears E. 20° E. and S. 20° W.
71.80	Draw, 8 lks. wide, in shaley limestone, course S. 30° W.; base of 240-foot descent; begin abrupt ascent.
78.80	Top of 200-foot ascent, bears N. 20° E. and S. 20° W.
81.30	Begin descent, bears N. and S.
84.70	Draw, 8 lks. wide, course S. 30° W., base of 50-foot descent.
87.30	Draw 8 lks. wide, course S.; begin ascent.
90.30	Top of 50-foot ascent on S. slope of spur; begin descent.
94.40	Draw 5 lks. wide, course S. 30° W., base of 100-foot descent; begin ascent.
96.30	Top of 50-foot ascent, bears N. and S.; begin descent over shaley hillside, dotted with clusters of oak brush.
104.50	Base of 300-foot descent, bears N. and S.
105.00	Road bears N. 20° E. and S. 20° W.
107.00	Wash, 15 lks. wide, in Footes Canyon, course S. 20° W.
107.38	The C. C. of Tps 12 and 13 S., R. 2 E. Land, mountainous. Soil, rocky and stony, 4th rate. Timber, some scattering cedar, scrub oak brush. October 23, 1904.

October 24: At the corner of secs. 5, 6, 31 and 32, I set off 39°43'30" on latitude arc and 11°42'30" S. on declination arc, and at 8 a.m., a.s.t., establish meridian with solar.

Thence I run

N. 86°16' E. (reported bearing) on random retracement line between secs. 5 and 32.

41.35 Set stake for temporary $\frac{1}{2}$ sec. corner, no trace of old $\frac{1}{2}$ corner found.

82.70 Set stake for temporary corner of secs. 4, 5, 32 and 33; no trace of old sec. corner found.

Thence I run

N. 89°50' E. on random retracement line between secs. 4 and 33.

PAYSON FOREST RESERVE BOUNDARY.

South boundary T. 12 S., R. 2 E.

Chains.	
40.00	Set stake; no trace of $\frac{1}{2}$ corner found.
79.50	Intersect N. and S. sec. line 150 lks. S. of corner of secs. 3, 4, 33 and 34, which is a limestone conglomerate properly marked, but being in state of decomposition. I replace with a limestone 20x10x8 ins., set 15 ins. in ground for corner of secs. 3, 4, 33 and 34, marked 3 notches on E. and W. faces, and build mound of stone, 4 ft. base, 3 ft. high, W. of corner. October 24, 1904.
	Note: Measurement of 2 miles is 50 lks. short of reported distance, or proportional measurement of $12\frac{1}{2}$ lks. short of reported distance to the $\frac{1}{2}$ mile, and from falling of 150 lks. S. in 2 miles, the true course is given a bearing differing by 75 lks. October 24, 1904.
	Thence from corner of secs. 3, 4, 33 and 34, I run S. 89°18' W. on true retracement line between secs. 4 and 33, ascending through oak brush.
5.32	Top of 100-foot ascent, bears W. and E., begin descent.
5.32	Set iron U. S. Forest Reserve Boundary Post No. 25, 24 ins. in ground, for reserve boundary marking on prominent summit, marked: RESERVE in N. W. and N. E. quadrants, and build mound of stone, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, around post.
12.00	Draw, 8 lks. wide, course S. W.
20.00	Draw, 5 lks. wide, course S.
32.75	Draw, 10 lks. wide, course S. 30° W., base of 150-foot descent; begin ascent.
39.87 $\frac{1}{2}$	Set sandstone 22x12x10 ins., 15 ins. in ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on N. face, and build mound of stone, 4 ft. base, 3 ft. high, N. of corner.
43.00	Top of 100-foot ascent, bears N. E. and S. W.; begin descent bears N. 20° E. and S. 20° W.
66.00	Head of draw, course S. W.
79.75	Set a limestone 18x12x8 ins., 12 ins. in ground for corner of secs. 4, 5, 32 and 33, marked with 4 notches on E. and 2 on W. faces, from which: A pine, 4 ins. diam., bears N. 66° E., 24 lks. dist., marked RES T 12 S R 2 E S 33 B T An oak, 4 ins. diam., bears S. 10° W., 6 lks. dist., marked T 13 S R 2 E S 5 B T No other trees available. I build mound of stone, 4 ft. base, 2 ft. high, W. of corner.
	Land, mountainous. Soil, rocky and gravelly, 4th rate. Timber, some scattering cedar and dense oak brush. October 25, 1904.

	October 24: From corner of secs. 4, 5, 32 and 33, I run S. 85°44' W. on true retracement line between secs. 5 and 32, descending.
2.00	Draw, 10 lks. wide, course S. W., base of 400-foot descent; begin ascent along steep broken S. slope, bears N. E. and S. 70° W.
13.00	Top of 80-foot ascent bears N. 70° E. and S. 70° W., begin descent bears N. E. and S. W.
22.20	Fence bears N. 20° E. and S. 30° W., base of 250-foot descent; leave oak brush, enter bottom land, bears N. 20° E. and S. 30° W.
22.55	Irrigation ditch, course S. 30° W.
31.50	Salt Creek, 50 lks. wide, 4 ft. banks, water 15 lks. wide, 8 ins. deep, clear slightly saline water, course S. 20° W.
34.00	House bears N. 1.50 chs. dist.

PAYSON FOREST RESERVE BOUNDARY.

South Boundary T. 12 S., R. 2 E.

- Chains.
- 36.00 Center of spur of San Pete Valley R. R. track bears S. $28^{\circ}50'$ E. and curve of 5° to Tifton N. end.
- 38.00 Fence parallel to railroad.
- 38.60 Road bears N. 20° E. and S. 30° E.
- 41.22 $\frac{1}{2}$ True point for 1 sec. corner falls in wagon track to old salt diggings, which bears . . 1.00 ch. dist.
- 41.32 $\frac{1}{2}$ Set iron U. S. Forest Reserve Boundary Post No. 24, 30 ins. in ground, for W. C. to 1 sec. corner, marked:
 W. C. on top of cap.
 S 32 on W. side
 S 5 on E. side
 RESERVE in N. W. and N. E. quadrants, and build mound of stone, 3 ft. base, 1 ft. high, around post; and mound of stone, 3 ft. base, 2 ft. high, N. of corner.
- 42.00 Begin ascent over sandstone conglomerate pinnacles, bears N. E. and S. E.
- 72.45 Top of 250-foot ascent bears N. 80° E. and S., at which point I build mound of stone, around cedar flag pole, 3 ft. base, 2 ft. high, for line marking on prominent summit; thence over sage brush bench.
- 82.45 Corner of secs. 5, 6, 31 and 32.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, oak brush.
- October 24, 1904.
-
- October 26: At corner of secs. 3, 4, 33 and 34, I set off $39^{\circ}43'30''$ on latitude arc and $12^{\circ}23'$ S. on declination arc and establish meridian with solar at 8 a.m., a.s.t.
- Thence I run
 N. $89^{\circ}40'$ E. on random retracement line between secs. 3 and 34.
- 40.00 Set stake for temporary 1 sec. corner; no trace of old corner.
- 80.00 Set stake for temporary corner of secs. 2, 3, 34 and 35; no trace of old corner.
 (Old notes call for 2 cedar bearing trees; there are no cedar trees and no evidence of any ever having existed within a radius of 1 mile.)
 Thence from this temporary stake I continue
 N. $89^{\circ}40'$ E. on random between secs. 2 and 35.
- 36.76 Intersect N. and E. 1 sec. line 4.73 chs. N. of 1 sec. corner, between secs. 2 and 35, which is a sandstone conglomerate $18 \times 6 \times 3$ ins., being insecurely set and unshapely. I replace with a sandstone $26 \times 8 \times 4$ ins., set 18 ins. in ground, marked 1 on N. face and on large old mound of stone W. of corner to $3\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high.
- Thence from this 1 sec. corner I run
 N. $88^{\circ}01'$ W. on true line between secs. 2 and 35, through dense oak brush.
- 2.50 Draw, 16 lks. wide, course N. 7° W.; begin ascent along steep E. slope of spur.
- 25.50 Top of 150-foot ascent on N. end of ridge, begin descent.
- 38.92 Set quartzite stone $18 \times 10 \times 6$ ins., 18 ins. in ground, for corner of secs. 2, 3, 34 and 35, marked 2 notch-
 es on E. and 4 on W., and build mound of stone, $3\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high, W. of corner.
 Corner falls on W. slope 200 ft. below summit.
 Land, mountainous.
 Soil, rocky and gravelly, 4th rate.
 Timber, dense oak brush.

PAYSON FOREST RESERVE BOUNDARY.

South Bay. T. 12 S., R. 2 E.

Chains.	At this corner I set off 12°28'30" S. on the declination arc and at 15 ^h 56 ^m before noon, l.m.t., observe sun on meridian and obtain a reading of 39°43'30" on the latitude arc.
	From corner of secs. 2, 3, 34 and 35 I run N. 88°01' W. on true retracement line between secs. 3 and 34, descending through dense oak brush.
7.00	Draw, 10 lks. wide, course N. 70° W.
9.50	Base of descent 200 ft. below sec. corner, bears N. 30° E. and S. W.
14.96	Set iron U. S. Forest Reserve Boundary Post No. 26, 30 ins. in ground and build mound of stone 3½ ft. base, 1½ ft. high, around post for reserve boundary marking, marked RESERVE in N. W. and N. E. quadrants.
15.10	Road, bears N. E. and S. W., in Hop Creek Canyon.
16.10	Hop Creek (dry) 20 lks. wide, 5 ft. banks, course S. W.
18.00	Begin ascent, bears N. E. and S. W.
27.00	Top of 200-foot ascent on south point of spur, begin descent down south slope of spur.
33.00	Draw, 10 lks. wide, course S. 30° E., base of 50-foot descent; begin ascent; enter scattering cedar timber, bears N. 30° W. and S. 30° E.
37.00	Top of 90-foot ascent bears N. and S.
38.92	Set limestone conglomerate 22x14x6 ins., 14 ins. in ground, for ½ sec. corner, marked ½ on N. face, and build mound of stone, 3 ft. base, 2 ft. high, N. of corner.
47.00	Draw, 10 lks. wide, course S. E., begin ascent.
55.00	Top of 150-foot ascent bears N. and S.
57.00	Begin descent, leave scattering timber, bears N. 70° W. and S. 70° E.
62.50	Draw 8 lks. wide, course S.; base of 100 ft. descent, begin ascent.
65.50	Top of 50-foot ascent, begin descent, bears N. and S.
69.50	Draw, 10 lks. wide, course S.; base 50-foot descent, begin ascent.
73.00	Side hill wash, course S. E.
77.84	Corner of secs. 3, 4, 33 and 34. Land, mountainous. Soil, rocky and gravelly, sandstone, limestone and quartz pebbles, 4th rate. Timber, scattering cedar and oak brush.
	October 26, 1904.
	October 27: At the ½ sec. corner between secs. 2 and 35 I set off 39°43'30" on latitude arc and 12°43'30" S. on declination arc and at 8 a.m., a.s.t., establish meridian with solar.
	Thence I run
	East on random retracement line between east halves of secs. 2 and 35.
42.50	Intersect N. and S. sec. line 274 lks. S. of corner of secs. 1, 2, 35 and 36, which is a volcanic stone or basalt 8x6x6 ins. above ground, correctly marked with 5 notches on W. and 1 on E. faces, from which new witness trees: An oak, 5 ins. diam., bears N. 51°45' E., 75 lks. dist., marked RES T 12 S R 2 E S 36 B T A maple, 10 ins. diam., bears S. 28°45' W., 138 lks. dist., marked T 13 S R 2 E S 2 B T
	Thence from this corner I run
	S. 86°19' W. on true retracement line between secs. 2 and 35, gradually descending through oak brush.
30.50	Side hill wash, 5 lks. wide, course N. 20° W.
40.50	Draw, 10 lks. wide, course S. 80° W.; base of descent. 350 ft. below sec. corner.

PAYSON FOREST RESERVE BOUNDARY.

South Boundary T. 12 S., R. 2 E.

Chains.

- 42.50 The $\frac{1}{2}$ sec. corner between secs. 2 and 35, Tps. 12 and 13 S., R. 2 E.
Land, mountainous.
Soil, rocky and washed pebbles, 4th rate.
Timber, oak and vine maple brush.
-
- At the corner of secs. 1, 2, 35 and 36, I set off 12°49' S. on declination arc and at 16⁰⁰25 before noon, l.m.t., observe sun on meridian, and obtain a reading of 39°43'30" on latitude arc.
At corner of secs. 1, 2, 35 and 36, Tps. 12 and 13 S., R. 2 E., I set off 39°43'30" on latitude arc and 12°50' S. on declination arc, and at 1 o'clock p.m., a.s.t., establish meridian with solar.
Thence I run
East on random retracement line between secs. 1 and 36.
- 40.00 Set stake for temporary $\frac{1}{2}$ sec. corner; no trace of old corner.
- 79.90 Intersect N. and S. range line 51 lks. S. of corner of Tps. 12 and 13 S., Rs. 2 and 3 E., which is a limestone 12x10x8 ins. above ground, marked with 6 notches on four edges, 13 S. on south, 12 S. on north, 3 E. on east, 2 E. on west faces, with mound of stone, which I enlarge to 3 $\frac{1}{2}$ ft. base by 2 $\frac{1}{2}$ ft. high, S. of corner.
Thence I run
S. 89°38' W. on true retracement line between secs. 1 and 36.
- .07 Set iron U. S. Forest Reserve Boundary Post No. 28, 30 ins. in ground, and build mound of stone, 4 ft. base, 1 $\frac{1}{2}$ ft. high, around post, for E. C. to corner of Tps. 12 and 13 S., Rs. 2 and 3 E., marked:
T 12 S C 31 in N. E. quadrant
R 3 E S 6 in S. E. quadrant
T 13 S S 1 in S. W. quadrant
R 2 E S 36 in N. W. quadrant
W C on top of cap
RESERVE in N. W. quadrant.
- 9.55 Draw, 5 lks. wide, course S.
- 13.80 Old road bears N. W. and S. E.
- 16.65 Old road, bears N. and S.; on spur N. and S.
- 29.55 Old road bears N. W. and S. E.
- 30.40 Draw, 10 lks. wide, course S. E.; begin ascent.
- 39.95 Set white granite 18x12x4 ins., 12 ins. in ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on N. face, from which:
A maple, 8 ins. diam., bears S. 59°30' E., 110 lks. dist., marked C 2 1 B T
No other trees available; build mound of stone 3 ft. base, 2 $\frac{1}{2}$ ft. high, N. of corner.
- 45.00 Top of 100-foot ascent, bears E. and S.; divide between Water Canyon on E. and Hop Creek Canyon on N. W.
- 55.00 On prominent summit set iron U. S. Forest Reserve Boundary Post No. 27, 24 ins. in ground, and build mound of stone, 5 ft. base, 1 $\frac{1}{2}$ ft. high, around post, for reserve boundary line marking, marked:
RESERVE in N. W. and E. E. quadrants.
- 55.50 Begin descent, bears N. and S. E.
- 71.50 Draw, 10 lks. wide, course E. 60° W.
Base of 350-foot descent.
- 79.90 The corner of secs. 1, 2, 35 and 36.
Land, mountainous.
Soil, black rocky limestone, 3rd rate.
Timber, scrub oak and vine maple brush.

October 27, 1904.

PAYSON FOREST RESERVE BOUNDARY.

East Bdy. T. 12 S., R. 2 E.

- October 28:
- Chains. At the corner of Tps. 12 and 13 S., Rs. 2 and 3 E., I set off 39°43'30" on latitude arc and 13°03'45" S. on the declination arc and establish meridian with the solar at 8 a.m., a.s.t.
- Thence I run
- North on random line between secs. 31 and 36, through dense oak brush.
- 40.00 Intersect E. and W. $\frac{1}{4}$ sec. line 105 lks. E. of the $\frac{1}{4}$ sec. corner, which is a volcanic rock (or basalt) 18x8x6 ins., set 4 ins. in ground. I reset 12 ins. in ground in original position, marked $\frac{1}{4}$ on W. face, from which:
- An aspen 4 ins. diam., bears N. 55° E., 8 lks. dist., instead of N. 85° E., 10 lks., as reported, marked $\frac{1}{4}$ S 31 B T
- An aspen, 5 ins. diam., bears N. 60° W., 20 lks. dist., ~~as reported~~ instead of N. 62° W. 27 lks., as reported, marked $\frac{1}{4}$ S 36 B T
- (These trees were originally marked on bark. I leave original marking and blaze under same and mark as noted).
- Thence from this $\frac{1}{4}$ sec. corner I run
- S. 1°30' E. on true line between secs. 31 and 36, ascending through dense small aspen timber.
- 8.00 Top of 100-foot ascent on divide bears F. and W., between Water Canyon on south and Hop Creek Canyon on north, at which point I build mound of stone, 3 ft. base, 2 ft. high, for line marking. Leave aspen timber, enter oak brush, bears E. and W.
- 10.00 Begin descent bears E. and S. 60° W.
- 13.20 Road, bears N. 80° E. and S. 80° W.
- 39.00 Draw, 5 lks. wide, course S. E., base of 300-foot descent.
- 40.00 Corner of Tps. 12 and 13 S., Rs. 2 and 3 E.
- Note: In the random line running north I intersect old flag stake set by former surveyor at 32.00 chs. N. of Tp. corner. There is no brush cut north of this point and the $\frac{1}{4}$ sec. corner was evidently not set with instrument. Assuming therefore that he carried a correct line north by lining rod on next hill, looking over the aspen timber, I proceeded as follows. October 28, 1904.
- From $\frac{1}{4}$ sec. corner between secs. 31 and 36 I run
- N. 1°30' E. on random retracement line.
- 40.14 Intersect E. and W. sec. line 29 lks. E. of corner of secs. 25, 30, 31 and 36, which is a quartzite stone 10x10x8 ins. above ground, correctly marked with 5 notches on N. and 1 on S. faces, from which new witness trees:
- An aspen 5 ins. diam., bears S. 12° E., 8 lks. dist., marked T 12 S R 3 E S 31 B T
- An aspen, 6 ins. diam., bears S. 59° W., 7 lks. dist., marked RES T 12 S R 2 E S 36 B T
- An aspen, 5 ins. diam., bears N. 64° W., 31 lks. dist., marked RES T 12 S R 2 E S 25 B T
- No other trees; I build mound of stone, 4 ft. base, 3 $\frac{1}{2}$ ft. high, W. of corner.
- Thence from true corner of secs. 25, 30, 31 and 36 I run
- S. 1°05' W. on true retracement line through aspen timber, ascending.
- .06 Set iron U. S. Forest Reserve Boundary Post No. 29, 20 ins. in ground to rock and build mound of stone, 4 $\frac{1}{2}$ ft. base, 2 ft. high, around same for witness corner to corner of secs. 25, 30, 31 and 36, marked:
- W C on top of cap
- T 12 S S 30 in N. E. quadrant

PAYSON FOREST RESERVE BOUNDARY.

E. Bdy. T. 12 S., R. 2 E.

- Chains. R 3 E S 31 in S. E. quadrant
S 36 in S. W. quadrant
R 2 E S 25 in N. W. quadrant
RESERVE in N. W. and S. W. quadrants.
- 6.00 Muddy seap, drains to N. 10° W.
9.50 Spring bears W. 2½ chs., drains to E.; water sinks.
10.50 Trail bears N. 70° W. and S. 70° E. and forks to S. 10° W.
18.00 Leave aspen thicket, enter scattering fir timber, bears E. and W.
25.00 Leave fir timber, enter aspen thicket, bears E. and W.
31.00 Trail bears N. 10° W. and S. E.
40.14 The ¼ sec. corner between secs. 31 and 36, on N. E. slope, 600 ft. above sec. corner.
Land, rolling and mountainous.
Soil, black limestone and rocky, 3rd and 4th rate.
Timber, scattering fir on N. slope, aspen and oak brush.
-
- From corner of secs. 25, 30, 31 and 36, I run North on random retracement line between secs. 25 and 30.
- 40.15 Intersect E. and W. ¼ sec. line 8 lks. E. of the ¼ sec. corner, which is a limestone 10x4x8 ins. above ground, correctly marked ¼ on W. face; I build mound of stone 3½ ft. base, 2½ ft. high, W. of corner.
Thence from this ¼ sec. corner I run S. 0°07' E. on true retracement line between south halves of secs. 25 and 30, ascending through dense oak brush.
- 8.00 Top of 100-foot ascent bears N. 80° W. and S. 80° E.
9.50 West rocky point of ridge, begin descent, bears S. E. and breaks off to W.
13.50 Draw, 10 lks. wide, course N. W., base of 50-foot descent; begin ascent.
37.00 Leave scrub oak brush, enter aspen thicket (small timber) bears N. E. and S. 70° W.
40.00 Trail bears N. 20° E. and S. 10° W. in wash, 3 lks. wide, course N. 20° W.
40.15 The corner of secs. 25, 30, 31 and 36.
At the ¼ corner between secs. 25 and 30 I set off 13°29'15" S. on declination arc and at 16^m12^s before noon, l.m.t., observe sun on meridian and obtain reading of 39°44'30" on latitude arc.
Thence from the ¼ sec. corner I run North on random retracement line between north halves of secs. 25 and 30.
- 40.10 Intersect E. and W. sec. line 23 lks. E. of corner of secs. 19, 24, 25 and 30, which is a sandstone 18x10x3 ins. lying on top of ground in small mound of stone, properly marked. As there is flaw in stone I replace in original position a sandstone (cement) 32x12x5 ins., set 20 ins. in ground, marked 2 notches on S. and 4 on N. faces, from which a new bearing tree:
A mahogany, 5 ins. diam., bears S. 12° W., 19 lks. dist., marked RES T 12 S R 2 E S 25
B T
No other trees available; I build mound of stone, 4 ft. base, 2½ ft. high, W. of corner.
Thence from corner I run S. 0°20' E. on true retracement line between secs. 25 and 30, descending through oak and mahogany brush.
- 16.00 Base of descent, bears E. and W., 200 ft. below sec. corner.
16.20 Set iron U. S. Forest Reserve Boundary Post No.

PAYSON FOREST RESERVE BOUNDARY.

East Bay. T. 12 S., R. 2 E.

Chains	30, 30 ins. in the ground and build mound of stone $3\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high, around same, for line marking in prominent place, marked: RESERVE in N. W. and S. W. quadrants, from which: A cottonwood, 10 ins. diam., bears S. 1 lks. dist., marked F R B P No. 30 B T
16.35	Road in Hop Creek Canyon, bears N. 60° W. and S. E.
17.00	Draw, 10 lks. wide, course W. from N. E. out of Box Canyon.
18.00	Draw, 15 lks. wide, course N. 60° W. for 5.00 chs. then W. from S. E. Hop Creek Canyon, begin abrupt ascent.
21.50	Top of 80-foot ascent on east point of conglomerate cliff; begin descent.
25.90	Draw, 10 lks. wide, course N. E., base of 30-foot descent. Leave oak brush, enter aspen thicket, begin ascent, bears N. E. and S. W.
32.60	Leave aspen thicket, enter oak brush, bears N. 70° E. and S. 70° W.
40.10	$\frac{1}{4}$ sec. corner between secs. 25 and 30, on steep N. slope, 200 ft. above last draw. Land, mountainous. Soil, rocky and gravelly, 4th rate. Timber, aspen, cottonwood in Hop Creek Canyon, dense oak and mahogany brush.
<hr/>	
40.15	From corner of secs. 19, 24, 25 and 30, I run North on random retracement line between secs. 19 and 24. Intersect E. and W. $\frac{1}{4}$ sec. line 20 lks. E. of the $\frac{1}{4}$ sec. corner between secs. 19 and 24, which is a sandstone $12 \times 5 \times 5$ ins., set 3 ins. in ground. Being defective in size, I replace with a sandstone $18 \times 10 \times 8$ ins., set 12 ins. in ground for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face, and build mound of stone, 3 ft. base, 2 ft. high, W. of corner. Thence from the $\frac{1}{4}$ sec. corner I run S. $0^{\circ}17'$ E. on true retracement line between south halves of secs. 19 and 24, ascending abruptly through dense small oak brush.
2.75	Top of ridge, bears E. and W., 100 ft. above $\frac{1}{4}$ sec. corner, at which point I build mound of stone around signal flag pole, 4 ft. base, 3 ft. high, for line marking on summit. Begin descent, bears E. and S. 60° W.
10.30	Head of draw, course S. 20° E.
40.15	The corner of secs. 19, 24, 25 and 30, on south slope of hill 1000 ft. below summit. October 29, 1904. October 31: At the $\frac{1}{4}$ sec. corner between secs. 19 and 24, at 8 a.m., a.s.t., I set off $39^{\circ}45'30''$ on latitude arc and $14^{\circ}03'15''$ S. on declination arc, and establish meridian with solar. Thence I run North on random retracement line between north halves of secs. 19 and 24.
41.85	Intersect E. and W. sec. line 11 lks. W. of corner of secs. 13, 18, 19 and 24, which is a sandstone, $14 \times 10 \times 6$ ins. above ground, firmly set, with mound of stone W. of corner, as called for in notes of General Land Office. Thence from true corner of secs. 13, 18, 19 and 24 I run S. $0^{\circ}09'$ W. on true retracement line between secs. 19 and 24.
.06	Set iron U. S. Forest Reserve Boundary Post No. 31, 30 ins. in ground and build mound of stone, 4 ft. base, $1\frac{1}{2}$ ft. high, around same, for W. C. to corner of secs. 13, 18, 19 and 24, marked:

PAYSON FOREST RESERVE BOUNDARY.

East Bdy. T. 12 S., R. 2 E.

Chains.	W C on top of cap
	T 12 S S 18 in N. E. quadrant
	R 3 E S 19 in S. E. quadrant
	S 24 in S. W. quadrant
	R 2 E S 13 in N. W. quadrant
	RESERVE in S. W., N. W. and E. E. quadrants.
3.35	Trail bears N. W. and S. E.
3.55	Draw, 8 lks. wide, course N. W.; begin ascent.
16.80	West end of spur; top of 200-foot ascent, bears N. 80° E. and S. W.; thence gradual descent along W. slope of spur.
22.80	Swaile draw, bears course W. Begin ascent, bears E. and W.
28.00	Draw, 5 lks. wide, course N. W.; leave oak brush, enter aspen thicket.
31.50	Leave aspen, enter oak brush, bears E. and W.
41.85	The $\frac{1}{4}$ sec. corner between secs. 19 and 24, on steep N. slope, 700 ft. above swaile. Land, mountainous. Soil, rocky and gravelly, 4th rate. Timber, aspen and oak brush; some mountain balm near top of mountain.

October 31, 1904.

Note: From a review of surveys in T. 12 S., R. 2 E., it will be seen that the general results of the former surveyor's work is fairly good, while the detail work is rotten. From evidence of Mr. Vickers, P. O. Nephi, who worked on old survey as rodman for Mr. Page, the surveyor, it appears that former survey was made by running a system of triangulation across country and corners were set by measurement and with pocket compass, from the triangulation flags after completion of system, no blazing or chopping of line was done. This is corroborated by conditions found in the field and accounts for many intermediate corners being off, badly for distance and alignment, whereas the error would apparently be partially picked up in subsequent parts of the line and also accounts for many corners being omitted altogether.

GENERAL DESCRIPTION T. 12 S., R. 2 E.

Is rough, mountainous country, the western portion being extremely mountainous. The township is traversed by Salt Creek, a stream of slightly saline water flowing in a southerly direction through center of township. This creek turns west about one-half mile south of the south boundary of township, and furnishes power for electric light plant of Nephi and is used for irrigation in valley north of Nephi in Tps. 12 and 13 S., R. 1 E. The township is covered principally with scrub oak brush, with some scattering cedar. Old salt diggings in sec. 32 have been abandoned.

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 3 E.

- Chains. November 1:
At corner of secs. 13, 18, 19 and 24, on west boundary of T. 12 S., R. 3 E., I set off $39^{\circ}46'$ on latitude arc and $14^{\circ}22'30''$ S. on the declination arc and at 8 a.m., a.s.t., establish meridian with the solar.
- I run
East on random line between secs. 18 and 19.
- 44.50 Intersect N. and S. $\frac{1}{2}$ sec. line 196 lks. N. of $\frac{1}{2}$ sec. corner between secs. 18 and 19, which is a sandstone $10 \times 10 \times 6$ ins., set 4 ins. in ground, with small mound of stone on north. I set in its stead in original position a sandstone $20 \times 12 \times 5$ ins. 15 ins. in ground for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on N. face and build mound of stone, $3\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high, E. of corner.
- Thence from $\frac{1}{2}$ sec. corner I run
N. $87^{\circ}29'$ W. on true line between west halves of secs. 18 and 19, through oak brush descending.
- 6.00 Draw, 8 lks. wide, course N. W.; base of descent 80 ft. below $\frac{1}{2}$ sec. corner. Leave oak brush, enter aspen thicket; thence along N. slope of hill in swail.
- 9.50 Begin ascent, bears N. W. and S. E.
- 14.50 Leave aspen thicket, enter oak brush, bears N. W. and S. E.
- 18.50 Top of 100-foot ascent bears N. W. and S. E.
- 19.50 Begin descent, bears N. W. and S. E.
- 36.00 Draw, 8 lks. wide, course N. W., base of 350-foot descent, bears N. W. and S. E.; begin ascent.
- 39.00 Top of 30-foot ascent bears N. 80° W. and S. E.; begin descent bears N. E. and S. W.
- 44.50 Corner of secs. 13, 18, 19 and 24.
Thence from the $\frac{1}{2}$ sec. corner between secs. 18 and 19, I run
East on random retracement line between secs. 18 and 19.
- 39.75 Intersect N. and S. sec. line 96 lks. S. of corner of secs. 17, 18, 19 and 20, which is a sandstone $18 \times 10 \times 6$ ins., set 4 ins. in ground. I reset same stone 12 ins. in ground for corner of secs., stone correctly marked 5 notches on N. and 3 on S., and build mound of stone, 4 ft. base, $2\frac{1}{2}$ ft. high, W. of corner.
- Thence from sec. corner I run
S. $88^{\circ}37'$ W. on true retracement line between secs. 18 and 19, ascending, bears N. E. and S. W.
- 4.25 Top of sharp conglomerate rock ridge bears N. E. and S. W., 80 ft. above sec. corner, at which point I set iron U. S. Forest Reserve Boundary Post No. 32, 6 ins. in ground to solid rock, and build mound of stone, 6 ft. base, $3\frac{1}{2}$ ft. high, around post, for line marking on prominent summit, marked RESERVE in N. E. and N. W. quadrants.
- Begin descent, bears N. 60° E. and S. 60° W.
- 7.00 Enter aspen timber, bears N. and S. W.
- 14.00 Leave aspen grove; enter oak brush, bears N. and S.
- 26.30 Enter aspen thicket bears N. E. and S. W.; leave oak brush.
- 31.00 Side hill wash, 5 lks. wide, course N. 30° W.
- 38.00 Leave aspen thicket, enter oak brush, bears N. 30° W. and S. 30° E.
- 39.75 The $\frac{1}{2}$ sec. corner between secs. 18 and 19, 1000 ft. below summit.
- Land, mountainous.
Soil, rocky and gravelly, 4th rate.
Timber, aspen and oak brush.

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 3 E.

- Chains At corner of secs. 17, 18, 19 and 20 I set off 14°27'45" S. on declination arc and at 16^m20^s before noon, l.m.t., observe sun on meridian and obtain a reading of 39°46' on latitude arc. Thence (at 1 p.m.) I run East on random retracement line between secs. 17 and 20.
- 40.15 No trace of old corner; set stake for temporary $\frac{1}{4}$ sec. corner.
- 80.80 Intersect N. and S. sec. line 4.00 chs. S. of corner of secs. 16, 17, 20 and 21, which is a white quartzite 8x10x5 ins. above ground, correctly marked with 3 notches on S. and 4 on E. faces. I rebuild mound of stone 3 $\frac{1}{2}$ ft. base, 2 $\frac{1}{2}$ ft. high, W. of corner. Thence from true corner I run S. 87°10' W. on true line between secs. 17 and 20, through oak brush.
- 5.00 Draw, 5 lks. wide, course S. 20° E. for 4.00 chs., thence S. 30° W.
- 8.00 Leave oak brush, enter aspen timber, bears N. and S.
- 9.00 Draw, 10 lks. wide, course S. 30° W.
- 10.80 Leave aspen grove, enter oak brush, bears N. 30° W. and S. 30° E.; begin ascent.
- 16.80 Top of 80-foot ascent on spur, bears N. 30° W. and S. 30° E.; begin descent.
- 20.40 Draw, 10 lks. wide, course S. 20° E.; base of 40-foot descent; begin ascent.
- 25.00 Top of 100-foot ascent, bears N. E. and S. W.
- 35.40 Draw, 5 lks. wide, course S. 30° E.
- 40.40 Set sandstone 25x10x4 ins., 15 ins. in ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on E. face, from which:
A mahogany, 6 ins. diam., bears S. 3°15' E., 73 lks. dist., marked S 20 B T
No other trees available; I build mound of stone 3 $\frac{1}{2}$ ft. base, 2 $\frac{1}{2}$ ft. high, W. of corner.
- 40.80 Top of spur bears N. and E. on S. slope 100 ft. above draw; begin descent.
- 44.15 Draw, 8 lks. wide, course S. 30° W., base of 100-foot descent; begin ascent.
- 52.80 Top of 150-foot ascent on S. slope of hill; begin descent.
- 61.20 Draw, 8 lks. wide, course S., base of 200-foot descent; begin ascent.
- 80.80 Corner of secs. 17, 18, 19 and 20, 600 ft. above draw on S. E. slope.
Land, mountainous.
Soil, rocky and gravelly, 4th rate.
Timber, scrub oak and mountain mahogany.

November 1, 1904.

November 2: At corner of secs. 16, 17, 20 and 21, I set off 39°46' on latitude arc and 14°42' S. on declination arc and establish a meridian with solar at 8 a.m., a.s.t.

Thence I run

North on random retracement line between secs. 16 and 17.

- 40.30 Intersect N. and W. $\frac{1}{4}$ sec. line 2 lks. E. of the $\frac{1}{4}$ sec. corner between secs. 16 and 17, which is an aspen tree 3 ins. diam. marked $\frac{1}{4}$ on S. side over bark. I leave original marking $\frac{1}{4}$ and mark $\frac{1}{4}$ S 17 on W. side, S. 16 on E. side, for $\frac{1}{4}$ sec. corner, from which:

An aspen, 4 ins. diam., bears S. 9°30' E., 10 lks. dist., marked $\frac{1}{4}$ S 16 B T, instead of S. 15° E., 10 lks. dist., as reported.

A red fir, 20 ins. diam., bears N. 58° W., 18 lks. dist. marked RES $\frac{1}{4}$ S 17 B T

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 3 E.

Chains	18 lks. instead of pine, 15 ins., $N. 60^{\circ} W.$ as reported.
	Thence from the $\frac{1}{2}$ sec. corner I run
	S. $0^{\circ} 02'$ E. on true retracement line between secs.
9.30	16 and 17, ascending through aspen timber.
	Top of 200-foot ascent on divide bears E. and W.,
	drainage to south flowing into Pop Creek Canyon,
	to north into Spencers Fork; about 10 acres of
	fir timber bears W. 8.00 chs. dist. Leave aspen
	timber, enter oak brush, begin descent.
12.80	Head of draw, course S. E.
20.30	Swail draw, course S. E., heads 4.00 chs. west
	against jagged rock cliff.
29.00	Swail draw, course S. E. for 10.00 chs., thence
	S. W.
33.40	Leave oak brush, enter aspen thicket, bears
	N. $30^{\circ} W.$ and E. $30^{\circ} E.$
37.00	Leave aspens, enter oak brush, bears N. $30^{\circ} W.$ and
	S. $30^{\circ} E.$, in swail drains to S. $3^{\circ} E.$
40.25	Set iron U. S. Forest Reserve Boundary Post No. 33,
	24 ins. in ground, and build mound of stone, 4
	5 ft. base, 1 $\frac{1}{2}$ ft. high, around same for W. C. to
	corner of secs. 16, 17, 20 and 21, marked:
	W C on top of cap
	T 12 S S 16 in N. E. quadrant
	R 3 E S 21 in S. E. quadrant
	S 20 in S. W. quadrant
	S 17 in N. W. quadrant
	RESERVE in N. W. quadrant, with 3 notches on S.
	and 4 on W.
40.30	Corner of secs. 16, 17, 20 and 21, 350 ft. below
	summit.
	Thence from $\frac{1}{2}$ sec. corner between secs. 16 and 17,
	I run
	North on random line between north halves of secs.
	16 and 17.
40.47	Intersect E. and W. sec. line 4 lks. N. of corner
	of secs. 8, 9, 16 and 17, which is a quartzite
	stone 8x8x6 ins. above ground, marked correctly
	with 4 notches on E. and W. faces, from which:
	An oak, 4 ins. diam., bears N. $66^{\circ} 15'$ E., 36
	lks. dist., marked REC T 12 S R 3 E S 9
	B T
	An oak, 4 ins. diam., bears S. $18^{\circ} E.$, 9 lks.
	dist., marked T 12 S R 3 E S 16 P T, in-
	stead of S. $42^{\circ} E.$, 10 lks. as reported.
	An oak, 5 ins. diam., bears S. $40^{\circ} E.$, 20 lks.
	dist., marked REC T 12 S R 3 E S 17 P T
	instead of S. $25^{\circ} W.$, 24 lks., as reported.
	An oak, 5 ins. diam., bears W. $19^{\circ} W.$, 8 lks.
	dist., marked REC T 12 S R 3 E S 8 P T
	instead of W. $23^{\circ} W.$, 5 lks., as reported.
	(Only the section was marked on old bearing trees.
	I therefore mark same correctly as shown above).
	Thence from true corner I run
	S. $0^{\circ} 03'$ E., on true retracement line between secs.
	16 and 17, through dense oak thicket, descending.
2.50	Base of 40-foot descent.
5.00	Draw in flat, course N. $80^{\circ} E.$ Leave thicket, enter
	aspen and scattering fir timber.
8.00	Draw, 5 lks. wide, course N. $60^{\circ} E.$ Begin ascent.
17.50	Top of 100 ft. ascent bears N. $60^{\circ} E.$ and S. $60^{\circ} W.$;
	begin descent. Leave fir and aspen, enter oak
	brush.
36.50	Leave oak, enter aspen, bears N. E. and S. W.
38.80	Draw, 10 lks. wide, course N. $60^{\circ} E.$, base of 200-
	foot descent; begin ascent.
40.47	The $\frac{1}{2}$ sec. corner between secs. 16 and 17, 30 ft.
	above draw.
	Land, mountainous.
	Soil, rocky and gravelly, 4th rate.

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 3 E.

Chains. Timber, scattering fir, aspen and oak brush.

At corner of secs. 8, 9, 16 and 17, I set off
 14°47' S. on the declination arc and at 16^m21^s
 before noon, l.m.t., observe sun on meridian and
 obtain a reading of 39°46' on latitude arc.
 Thence from this corner I run
 East on random retracement line between secs. 9
 and 16.

- 40.20 Intersect N. and S. $\frac{1}{4}$ sec. line 37 lks. N. of the $\frac{1}{4}$
 sec. corner, which is a conglomerate pinnacle rock
 6x7x5 ft. above ground, marked with a cross (+)
 and $\frac{1}{2}$ N. of cross, as described in notes of Gen-
 eral Land Office, from which:
 An aspen, 8 ins. diam., bears S. 0°45' W., 227
 lks. dist., marked $\frac{1}{2}$ S 16 B T
 Thence from this $\frac{1}{4}$ sec. corner I run
 N. 89°28' W. on true retracement line between secs.
 9 and 16, through small oak brush descending.
 3.00 Enter aspen timber, bears N. and S.
 4.00 Draw, 5 lks. wide, course E. 20° W., base of de-
 scent 50 ft. below $\frac{1}{4}$ sec. corner; enter scattering
 fir timber; begin ascent.
 7.70 Top of 100-foot ascent on W. slope of spur; begin
 descent.
 9.20 Leave fir, enter aspen timber, bears N. E. and S. W.
 12.20 Base of 100-foot descent, bears E. E. and S. W.
 13.20 Draw, 15 lks. wide, 8 ft. banks, course E. E., forks
 1.50 chs. S. of line, coursing from S. 30° W. and
 S. 80° W.
 17.20 Begin ascent, leave aspen timber, bears N. E. and
 S. W., enter oak brush.
 20.70 S. W. point of spur 40 ft. high.
 24.10 Draw, 5 lks. wide, course S. 20° E. for 2.00 chs.
 in to draw, flowing E.
 28.70 Leave oak brush, enter aspen timber.
 33.20 Leave aspen, enter oak, begin ascent bears N. E.
 and S. 60° W.
 40.16 Set iron U. S. Forest Reserve Boundary Post No. 34,
 30 ins. in ground, with mound of stone, 4 ft. base,
 1 $\frac{1}{2}$ ft. high, around same for W. C. to corner of
 secs. 8, 9, 16 and 17, marked:
 W C on top of cap
 T 12 S S 9 in N. E. quadrant
 R 3 E S 16 " S. E. quadrant
 S 17 in S. W. quadrant
 S 8 in N. W. quadrant
 RESERVE in S. W., N. W. and N. E. quadrants, with
 4 notches on E. and E. faces.

40.20 Corner of secs. 8, 9, 16 and 17.

November 2, 1904.

November 3:

Thence from $\frac{1}{4}$ sec. corner I run
 East on random retracement line between secs. 9 and
 16.

- 40.85 Intersect N. and S. sec. line 24 lks. N. of corner
 of secs. 9, 10, 15 and 16, which is a quartzite
 10x10x10 ins. correctly marked, set 3 ins. in
 ground. I replace with a quartzite 22x10x8 ins.
 set 15 ins. in ground, marked 3 notches on E.
 and 4 on S. faces, from which:

An aspen, 10 ins. diam., bears N. 17° W., 58
 lks. dist., marked RES T 12 S R 3 E S 9
 B T

No other trees available; I build mound of stone
 3 $\frac{1}{2}$ ft. base, 2 $\frac{1}{2}$ ft. high, W. of corner.

Thence from true corner I run

N. 89°40' W. on true retracement line between secs.
 9 and 16, through dense oak brush.

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 3 E.

- Chains.
- 3.80 Begin ascent, bears N. and S.
- 15.80 Top of 300-foot ascent. Leave oak brush, enter fir timber, bears N. and S.
- 19.50 Head of draw, course N.
- 23.80 Leave fir timber, enter oak brush, bears N. and S.
- 28.00 Begin descent, bears N. and S.
- 31.20 Leave oak brush, enter fir timber, bears N. and S.
- 32.40 Draw, 5 lks. wide, course N., base of 100-foot descent, begin ascent.
- 33.80 Top of 100-foot ascent; leave fir timber, bears N. and S.
- 37.30 Begin descent, bears N. and S.
- 40.85 The $\frac{1}{2}$ sec. corner between secs. 9 and 16, 150 ft. below summit.
Land, mountainous.
Soil, rocky and sandy, 3rd and 4th rate.
Timber, fir, aspen, oak and mountain balm brush.
-
- At corner of secs. 9, 10, 15 and 16, I set off 15°05'45" S. on declination arc, and at 16²¹ before noon, l.m.t., observe sun on meridian and obtain a reading of 39°47' on latitude arc.
Thence (at 1 p.m.) I run North on random retracement line between secs. 9 and 10.
- 37.54 Intersect N. and W. $\frac{1}{2}$ sec. line 47 lks. W. of $\frac{1}{2}$ sec. corner, which is a quartzite stone 12x10x5 ins. above ground, marked $\frac{1}{2}$ on W. face, from which are:
Aspen, 7 ins. diam., bears N. 27° E., 30 lks. dist., marked $\frac{1}{2}$ C 10 F T
Aspen, 6 ins. diam., bears N. 88°30' W., 72 lks. dist., marked $\frac{1}{2}$ C 9 B T
I build mound of stone, 3 $\frac{1}{2}$ ft. base, 2 ft. high, W. of corner.
Thence from $\frac{1}{2}$ corner I run S. 0°43' W. on true retracement line between secs. 9 and 10.
- .10 Enter aspen timber bears N. W. and S. E.
- 3.50 Draw, 10 lks. wide, course N. W.
- 4.20 Road, bears N. W. and S. E. 50°.
- 9.00 Begin ascent, bears N. W. and S. E.
- 16.50 Rocky side hill wash, course N. 70° E.
- 29.50 Top of 250-foot ascent; leave aspen and scattering fir timber, bears N. W. and S. E.
- 33.50 Begin descent, bears N. 20° W. and S. E.
- 35.50 Base of 90-foot descent, bears N. E. and S. W.
- 37.47 At a point 7 lks. N. of this corner I set iron W. C. Forest Reserve Boundary Post No. 35, 30 ins. in ground, with mound of stone, 4 ft. base, 1 $\frac{1}{2}$ ft. high around post, for W. C. to corner of secs. 9, 10, 15 and 16, marked:
W C on top of cap
T 12 S S 10 in N. E. quadrant
R 3 E S 15 in S. W. quadrant
S 16 in S. E. quadrant
S 9 in N. W. quadrant.
- 37.54 Corner of secs. 9, 10, 15 and 16.
Thence from $\frac{1}{2}$ sec. corner I run North on random line between secs. 9 and 10.
- 39.80 Intersect E. and W. sec. line 107 lks. W. of corner of secs. 3, 4, 9 and 10, which is a basalt 18x14x8 ins., set 4 ins. in ground, I reset 12 ins. in ground, marked with 5 notches on S. and 3 on E. faces. I build mound of stone, 3 $\frac{1}{2}$ ft. base, 2 ft. high, W. of corner.
Mouth of tunnel across creek bears S. 76°37' W. about 20.00 chs. dist.
Thence from sec. corner I run

RAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 3 E.

- Chains. S. 1°32' W. on true retracement line between secs. 9 and 10, through oak brush, along E. slope of spur.
- 5.00 Top of spur, begin gradual descent, bears N. 10° W. and S. 30° E.
- 15.00 Swail, course W., base of 50-foot descent, N.W. and S.E.; begin ascent, bears N.E. and S.W.
- 27.30 Top of 100-foot ascent bears N. 20° E. and S. 20° W., begin descent, bears E. and W.
- 30.00 Miner's cabin, bears W. about 10.00 chs. dist.
- 37.00 Base of 300-foot descent; leave oak brush, enter aspen timber, bears E. and W.
- 38.30 Leave aspen, enter sage flat, bears N. W. and S. E.
- 39.80 The $\frac{1}{2}$ sec. corner between secs. 9 and 10.
Land, rolling and mountainous.
Soil, gravelly and sandy, 2nd and 4th rate.
Timber, aspen and scattering fir and scrub oak brush.
Some local attraction in north half. Mining prospects in secs. 9 and 10.

November 3, 1904.

November 4:

At corner of secs. 3, 4, 9 and 10 I set off 39°48' on latitude arc and 15°21'15" S. on declination arc, and at 8 a.m., a.s.t., establish meridian with solar.

Thence I run

North on random retracement line between secs. 3 and 4.

- 40.00 Intersect N. and W. $\frac{1}{2}$ sec. line 140 lks. W. of the $\frac{1}{2}$ sec. corner between secs. 3 and 4, which is an oak tree, 3 ins. diam., marked $\frac{1}{2}$ S 4 on W. side, S. 3 on east side, from which:
An oak, 3 ins. diam., bears N. 33°30' E., 19 lks. dist., marked $\frac{1}{2}$ S 3 B T, instead of oak 3 ins. diam., N. 37° E., 15 lks. as reported.
An oak, 3 ins. diam., bears S. 35°30' W., 16 lks. dist., marked N 3 4 B T, instead of S. 63° W., 14 lks. dist., as reported.
(Trees imperfectly marked with pocket knife.
I remark with scribe).

I build mound of stone, 3 $\frac{1}{2}$ ft. base, 2 ft. high, W. of corner tree.

Thence from this $\frac{1}{2}$ sec. corner I run

S. 2°00' W. on true retracement line between secs. 3 and 4, through dense oak brush ascending.

- 10.00 Hoodle swings 4° additional to the E.
- 12.50 Swail draw, course N. 60° E.
- 20.00 Top of ascent 250 ft. above $\frac{1}{2}$ sec. corner; thence along E. slope of ridge.

- 40.00 Corner of secs. 3, 4, 9 and 10.

Thence from $\frac{1}{2}$ sec. corner between secs. 3 and 4, I run

North on random retracement line between north halves of secs. 3 and 4.

- 41.50 Intersect N. boundary of township 103 lks. E. of corner of secs. 3, 4, 33 and 34, which is a quartzite stone 10x8x6 ins., properly marked. I replaced with quartzite stone 22x12x8 ins., marked with 3 notches on E. and W. faces, and build mound of stone 3 $\frac{1}{2}$ ft. base, 2 $\frac{1}{2}$ ft. high, W. of corner.
Thence from true corner of secs. 3, 4, 33 and 34, I run

S. 1°25' E. on true retracement line between secs. 3 and 4, over rolling bench covered with sage brush and oak, along east slope.

- 9.50 Draw in 20-foot depression, course E.
- 11.25 Draw in 40-foot depression, course E.
- 21.50 Begin descent, bears N. 10° E. and S. E.

PAYSON FOREST RESERVE BOUNDARY.

T. 12 S., R. 3 E.

- Chains
 31.50 Base of 150-foot descent; enter aspen timber, bears N. E. and S. W.
 33.00 Set iron U. S. Forest Reserve Boundary Post No. 36 30 ins. in ground and build mound of stone, 4 ft. base, $1\frac{1}{2}$ ft. high, around post for reserve boundary marking, marked:
 RESERVE in N.W., and S.W. quadrants, from which:
 An aspen, 12 ins. diam., bears S. 76° E., 83 lks. dist., marked F.R.B.P. No. 36 B.T.
 An aspen, 6 ins. diam., bears S. 75° W., 30 lks. dist., marked F.R.B.P. No. 36 B.T.
 33.10 Road bears N. 80° W. and E.
 34.00 Spencer Fork Creek, 5 lks. wide, 4 ins. deep, course N. E. for 15.00 chs., thence about N. 20° E.
 34.30 Leave aspen timber, enter oak brush, begin ascent, bears E. and W.
 41.50 The $\frac{1}{2}$ sec. corner between secs. 3 and 4, 100 ft. above creek.

November 4, 1904.

GENERAL DESCRIPTION.

T. 12 S., R. 3 E., is mountainous rolling country, covered with growth of scrub oak brush, with an occasional aspen thicket and some scattering fir timber on N. slopes. It is principally a gravelly and conglomerate rock formation. Hop Creek heads in sec. 16 and flows S. W.; waters from springs in head sink in secs. 19 and 20. Spencers Fork Creek heads in secs. 9 and 15 and flows an intermittent stream in a northeasterly direction, crossing north boundary of sec. 3. Some benches, swails and creek bottoms could be used for agricultural purposes. The reserve line should take in more of the center of the township, secs. 19, 20, 21, 22, 15, 16, 10 and 3, if prior ownership does not conflict.

Mean magnetic declination $16^{\circ}50'$ E.

T. 11 S., R. 3 E.

November 5:

At corner of secs. 3, 4, 33 and 34, on south boundary of T. 11 S., R. 3 E., I set off $39^{\circ}48'45''$ on latitude arc and $15^{\circ}37'30''$ S. on declination arc and at 8 a.m., a.s.t., establish meridian with the solar.

Thence I run

N. $0^{\circ}02'$ W. on true line between secs. 33 and 34, over rolling surface along E. slope of ridge, covered with sage brush and clusters of oak brush.

- .05 I set iron U. S. Forest Reserve Boundary Post No. 37, 24 ins. in ground, for W. C. to corner of secs. 3, 4, 33 and 34, marked:
 W. C. on top of cap
 T 11 S S 34 in N. E. quadrant
 R 3 E S 3 in S. E. quadrant
 T 12 S S 4 in S. W. quadrant
 S 33 in N. W. quadrant
 RESERVE in N. W. and S. W. quadrants, and build mound of stone, 5 ft. base, $1\frac{1}{2}$ ft. high, around post.

- 11.50 Draw in 40-foot depression, course E.
 15.00 Top of 50-foot spur; bears E. and W.; begin descent, bears E. and W.
 20.75 Draw, 10 lks. wide, course N. 80° E., base of 50-foot descent.
 23.70 Draw, 8 lks. wide, course E.; begin ascent bears E. and W.

PAYSON FOREST RESERVE BOUNDARY.

T. 11 S., R. 3 E.

- Chains.
- 30.50 Draw, 5 lks. wide, course S. E.
- 38.00 Top of 100-foot ascent, bears E. and W. Thence along E. slope of spur.
- 40.00 Set quartzite stone 28x14x6 ins., 20 ins. in ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face, and build mound of stone, $3\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high, W. of corner.
- 44.00 Begin descent, bears N. W. and S. 20° E.
- 55.20 Draw, 10 lks. wide, course S. 80° E.; base of 100-foot descent; begin ascent.
- 60.00 Top of 60-foot ascent, bears E. and W.; begin descent.
- 63.40 Draw, 10 lks. wide, course N. 80° E.; base of 40-foot descent; begin ascent.
- 71.00 Top of 80-foot ascent, bears E. and W.
- 72.00 Begin descent, bears N. W. and S. E.
- 80.00 Set iron U. S. Forest Reserve Boundary Post No. 38, 26 ins. in ground, for corner of secs. 27, 28, 33 and 34, marked:
 T 11 S S 27 in N. E. quadrant
 R 3 E S 34 in S. E. quadrant
 S 33 in S. W. quadrant
 S 28 in N. W. quadrant
 RESERVE in N. W. and S. W. quadrants, with 3 notches on E. and 1 on S. sides, and build mound of stone, 5 ft. base, $1\frac{1}{2}$ ft. high, around post, and mound of stone, 4 ft. base, 3 ft. high, W. of corner. Corner falls on steep N. E. slope 100 ft. below summit.
- Land, hilly and mountainous.
 Soil, rocky and gravelly, 4th rate.
 Timber, clusters of scrub oak brush; some scattering cedars east of line.

At this corner I set off $15^{\circ}42'45''$ S. on declination arc and at $16^{\text{h}}20^{\text{s}}$ before noon, l.m.t., observe sun on the meridian and obtain a reading of $39^{\circ}49'30''$ on latitude arc.

From corner of secs. 27, 28, 33 and 34, I run N. $0^{\circ}02'$ W. on true line between secs. 27 and 28, descending through sage and oak brush.

- 7.50 Draw, 10 lks. wide, course S. E., base of descent, 50 ft. below sec. corner; begin ascent.
- 17.00 Top of 100-foot ascent, on spur, bears E. and W.
- 18.00 Begin descent, bears E. and W.
- 32.80 Draw, 10 lks. wide, course E.; base of 100-foot descent.
- 40.00 Set limestone 24x10x8 ins., 18 ins. in the ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face, and build mound of stone, 4 ft. base, 3 ft. high, W. of corner.
- 42.00 Begin ascent, bears N. 60° E. and S. 60° W., over nearly bare yellow dirt surface dotted with clusters of oak brush.
- 48.50 Side hill was 45 lks. wide, course S. E.
- 67.00 Top of 100-foot ascent, on spur bears N. 60° E. and S. W.
- 70.00 Begin descent bears E. and W., through dense scrub oak brush.
- 80.00 Set iron U. S. Forest Reserve Boundary Post No. 39, 30 ins. in ground, and build mound of stone 5 ft. base, $1\frac{1}{2}$ ft. high, around same for corner of secs. 21, 22, 27 and 28, marked:
 T 12 S S 22 in N. E. quadrant
 R 3 E S 27 in S. E. quadrant
 S 28 in S. W. quadrant
 S 21 in N. W. quadrant
 RESERVE in N. W. and S. W. quadrants, with 2 notches on S. and 3 on E. faces; and build mound

PAYSON FOREST RESERVE BOUNDARY.

T. 11 S., R. 3 E.

Chains.	<p>of stone, 4 ft. base, 3 ft. high, W. of corner; pits impracticable. Corner falls on steep N. slope 280 ft. below summit.</p> <p>Land, mountainous and hilly.</p> <p>Soil, rocky and gravelly, 4th rate.</p> <p>Timber, scrub oak brush; some scattering cedars east of line.</p> <p style="text-align: right;">November 5, 1904.</p>
	<p>November 7: At corner of secs. 21, 22, 27 and 28, I set off $39^{\circ}50'15''$ on latitude arc and $16^{\circ}13'45''$ S. on the declination arc, and at 8 a.m., a.s.t., establish meridian with the solar.</p> <p>Thence I run</p> <p>N. $0^{\circ}02'$ W. on true line between secs. 21 and 22, descending through dense oak brush.</p> <p>3.25 Base of descent, bears N. 60° E. and S. 60° W., 100 ft. below sec. corner.</p> <p>5.15 Draw, 10 lks. wide, course N. 60° E.; spring about 30.00 chs. down draw.</p> <p>6.00 Begin ascent, bears N. 60° E. and S. 60° W.</p> <p>18.00 Top of 150-foot ascent on S. E. slope of spur, begin gradual descent along E. slope.</p> <p>24.50 Draw, 8 lks. wide, course S. E., base of 40-foot descent; begin ascent, bears N. W. and S. E.</p> <p>29.50 Wash, 5 lks. wide, course S. 30° E.</p> <p>40.00 Set quartzite stone $26 \times 14 \times 8$ ins., 18 ins. in ground, for sec. corner, marked 1 on W. face and build mound of stone 4 ft. base, 3 ft. high, W. of corner.</p> <p>43.00 Top of 200-foot ascent on bare top of rocky spur, bears N. 70° E. and S. 70° W. Begin descent, bears N. E. and S. W.</p> <p>54.80 Base of 50-foot descent, at draw, 10 lks. wide, course S. E.; begin ascent bears N. W. and S. E.</p> <p>62.50 Top of 150-foot ascent bears E. and S. on E. slope of spur. Thence along E. slope of ridge.</p> <p>79.50 Backbone of ridge bears N. 60° E. and S. 60° W., small bare butte bears N. 60° E. about 5.00 chs. dist., on end of ridge.</p> <p>80.00 Set iron U. S. Forest Reserve Boundary Post No. 40, 28 ins. in ground and build mound of stone, 5 ft. base, 1 1/2 ft. high, around same, for corner of secs. 15, 16, 21 and 22, marked:</p> <p style="padding-left: 20px;">T 11 S 15 in N. E. quadrant</p> <p style="padding-left: 20px;">R 3 E 22 in S. E. quadrant</p> <p style="padding-left: 20px;">S 21 in S. W. quadrant</p> <p style="padding-left: 20px;">S 16 in N. W. quadrant</p> <p style="padding-left: 20px;">RESERVE in N. E. and S. W. quadrants, with 3 notches on N. and S. faces, and build mound of stone, 4 ft. base, 3 ft. high, W. of corner; pits impracticable. Corner falls on bare N. slope near summit of ridge, and is plainly visible from 3 or 4 miles to the N.</p> <p>Land, mountainous.</p> <p>Soil, rocky and washed boulders and pebbles, 4th rate.</p> <p>Timber, clusters of scrub oak brush.</p>
	<p>At this corner I set off $16^{\circ}18'30''$ S. on declination arc and at $16^{\text{m}}14^{\text{s}}$ before noon, l.m.t., observe sun on meridian and obtain a reading of $39^{\circ}51'$ on latitude arc.</p> <p>From corner of secs. 15, 16, 21 and 22, I run</p> <p>N. $0^{\circ}02'$ W. on true line between secs. 15 and 16, descending abruptly over bare washed pebble surface.</p> <p>5.00 Enter oak brush, bears E. and W.</p> <p>15.00 Base of 480-foot descent, bears N. E. and S. W.;</p>

PAYSON FOREST RESERVE BOUNDARY.

T. 11 S., R. 3 E.

Chains.	Continue gradual ascent over bench.
37.00	Begin more abrupt descent bears N. E. and S. W.
40.00	Set granite stone 22x14x10 ins., 15 ins. in ground, for 1 sec. corner, marked 1 on N. face, and build mound of stone, 4 ft. base, 3 ft. high, W. of corner.
46.75	Draw, 5 lks. wide, course N. 20° E.
70.50	Base of descent, bears N. 80° E. and S. 80° W., 1000 ft. below sec. corner.
72.10	Nebo Creek, 15 lks. wide, 18 ins. deep, course N. 80° E.; belt of cottonwood trees along creek.
75.70	Road, bears N. 80° E. and S. 80° W.
75.90	Set iron U. S. Forest Reserve Boundary Post No. 41 28 ins. in ground and build mound of stone, 6 ft. base, 1 1/2 ft. high, around same for boundary line marking, marked: RESERVE in N. W. and S. W. quadrants, from which: An oak, 5 ins. diam., bears S. 26°30' E., 46 lks. dist., marked RES. F.R.B.P. No. 41 B T An oak, 5 ins. diam., bears N. 86° E., 54 lks. dist., marked F.R.B.P. No. 41 B T Thence ascending through dense oak brush.
79.00	Enter scattering cedar timber, bears E. and W.
80.00	Set quartzite stone 22x14x4 ins., 15 ins. in ground for corner of secs. 9, 10, 15 and 16, marked with 3 notches on E. and 4 on S. faces, from which: A cedar, 14 ins. diam., bears N. 0°45' E., 55 lks. dist., marked T 11 S R 3 E S 10 B T A cedar, 5 ins. diam., bears S. 66°45' E., 30 lks. dist., marked T 11 S R 3 E S 15 B T A cedar, 10 ins. diam., bears S. 64°15' E., 120 lks. dist., marked RES T 11 S R 3 E S 16 P T A cedar, 6 ins. diam., bears N. 61°30' E., 149 lks. dist., marked RES T 11 S R 3 E S 9 B T Land, mountainous and rolling. Soil, rocky and gravelly, 4th rate. Timber, oak brush, cottonwoods on creek, and scattering cedar on W. end of mile. November 7, 1904.
<hr/>	
November 8: At corner of secs. 9, 10, 15 and 16, I set off 39°52' on latitude arc and 10°31'15" S. on declination arc, and at 8 a.m., a.s.t., established meridian with solar.	
Thence I run	
2.00	N. 0°08' E. on true line between secs. 9 and 10, through scattering cedar timber ascending.
10.50	Begin abrupt ascent, bears N. and W. Top of 250-foot ascent; leave cedar timber, enter sage and cluster oak brush, bears E. and W.; continue gradual ascent.
21.00	Top of ridge, bears N. 70° E. and S. 70° W., 350 ft. above sec. corner. Thence gradually descending over sage brush bench.
34.70	Draw, 10 lks. wide, course S. 70° E., base of 40-foot descent; begin gradual ascent.
40.00	Set quartzite stone 24x17x5 ins., 18 ins. in ground, for 1 sec. corner, marked 1 on N. face, and build mound of stone, 4 ft. base, 3 ft. high, E. of corner; pits impracticable.
58.20	Flat draw, 10 lks. wide, course S. E.
79.00	Top of gradual 150-foot ascent, bears N. and W.
80.00	Set iron U. S. Forest Reserve Boundary Post No. 42, 12 ins. in ground to rock and build mound of stone, 6 1/2 ft. base, 3 ft. high, around same for corner

PAYSON FOREST RESERVE BOUNDARY.

T. 11 S., R. 3 E.

Chains. of secs. 3, 4, 9 and 10, marked:
 T 11 S S 3 in N. E. quadrant
 R 3 E S 10 in S. E. quadrant
 S 9 in S. W. quadrant
 S 4 in N. W. quadrant
 RESERVE in N. W. and S. W. quadrants, with 5
 notches on S. and 3 on E. sides, and build mound
 of stone, 4 ft. base, 3 ft. high, W. of corner.
 Land, mountainous and rolling.
 Soil, rocky and gravelly, 4th rate.
 Timber, cedar and oak brush.

At this corner I set off $16^{\circ}36'15''$ S. on declination
 arc and at $16^{\text{m}}10^{\text{s}}$ before noon, l.m.t., observe
 sun on meridian and obtain a reading of $39^{\circ}53'$ on
 latitude arc.
 From corner of secs. 3, 4, 9 and 10, I run
 N. $0^{\circ}02'$ W. on true line between secs. 3 and 4,
 through clusters of oak brush over rolling surface.
 5.90 Flat draw, 10 lks. wide, course S. 60° E.
 15.00 Old road, bears N. W. and S. E.
 33.00 Begin descent, bears N. 60° E. and S. 60° W.
 37.50 Draw, 15 lks. wide, course N. 60° E.; base of 50-
 foot descent; begin ascent.
 40.00 Set limestone $24 \times 14 \times 12$ ins., 18 ins. in ground, for
 $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face, and build
 mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, W. of
 corner; pits impracticable.
 47.00 Top of 50-foot ascent, bears N. 60° E. and S. 60° W.
 49.00 Begin descent, bears E. and W.
 53.80 Draw, 10 lks. wide, course S. 60° E.; base of 40-
 foot descent; begin gradual ascent.
 74.74 Intersect Second Standard Parallel South, 33 lks.
 east of standard corner of secs. 33 and 34, T. 10 S.,
 R. 3 E., at which intersection I set iron U. S.
 Forest Reserve Boundary Post No. 43, 28 ins. in
 ground, and build mound of stone, 4 ft. base, $1\frac{1}{2}$
 ft. high around same, for C. C. of secs. 3 and 4,
 T. 11 S., R. 3 E., marked:
 C C on top of cap, south of center.
 R 3 E S 3 in S. E. quadrant
 T 11 S S 4 in S. W. quadrant
 RESERVE in S. W. quadrant, with 3 notches on E.
 and W. sides, and build mound of stone, 5 ft.
 base, 3 ft. high, S. of C. C.
 Note: From this C. C. I set off $39^{\circ}53'45''$ on lati-
 tude arc and $16^{\circ}37'15''$ S. on the declination
 arc and at 4 p.m., a.s.t., take backsight on cor-
 ner of secs. 15, 16, 21 and 22, and find same
 bears S. $0^{\circ}02'$ E. Backsight was also taken on
 this corner from several intermediate points.
 Land, rolling and hilly.
 Soil, gravelly and rocky, 4th rate.
 Timber, scrub oak brush.

November 8, 1904.

GENERAL DESCRIPTION.

T. 11 S., R. 3 E., is principally rolling, hilly,
 bench land covered with oak brush. Nebo Creek
 traverses the township from center west in an
 easterly and northeasterly direction, and joins
 Thistle Creek in northeastern portion of township,
 near settlement of Clinton, where it is used, par-
 tially, for irrigation. The township affords fairly
 good pasturage, oak brush and sulphur weed serving
 in that capacity. Drainage is to east and north-
 east. Mean magnetic declination is $17^{\circ}00'$ E.
 Same local attraction in township

PAYSON FOREST RESERVE BOUNDARY.

T. 10 S., R. 3 E.

Chains. Note: From evidence of oldest settlers the survey of lines between secs. 33 and 34, 27 and 34, 27 and 28, 22 and 27, 21 and 22, 15 and 22, were never made. Further, aside from other gross misrepresentations in notes of these lines, the one note between secs. 21 and 22 of Pennies Creek at 11.00 chs. in notes of General Land Office, is sufficient to show that the notes are "made up", as this creek is as a matter of fact at 31.30 chs. There is a large draw at 15.30 of this line, which if looked at from 1 mile east, at corner of secs. 22, 23, 26 and 27 (where notes were likely manufactured) appears to be the main creek, but could not possibly be mistaken for it if line was actually run, as one is a dry draw, while the other is a head stream of water 15 km. wide. As secs. 22, 27 and 34 have been reported as surveyed and accepted, and secs. 22 and 27 are settled and partially under fences and cultivation, the original areas must be maintained, but if this was done by measurement only it would work an injustice on the settlers, especially in sec. 22, where the owner has had private surveys made with its east boundary as a base. I therefore run lines west for 80.00 chs from the existing corners of secs. 14, 15, 22 and 23; 22, 23, 26 and 27; 26, 27, 34 and 35, and make west boundaries of secs. 34, 27 and 22 parallel to and equal in length to their respective east boundaries, as this appears from the conditions to be just and proper.

November 9:

At standard corner of secs. 33 and 34, on 2nd Standard Parallel South, which is a basalt rock 10x10x3 ins., set 4 inc. in ground, marked 3 notches on E. and N. and improperly N. C. on E. face, small N. C. on E., stone being deficient in length, I replace with a granite stone 26x14x10 ins., set 18 ins. in ground, for N. C. of secs. 33 and 34, marked N. C. on N. face, 3 notches on E. and E. faces, and enlarge mound of stone N. of corner to 4 ft. base, 3 ft. high.

I set off $39^{\circ}53'45''$ on latitude arc and $16^{\circ}48'50''$ S. on declination arc and at 8 a.m., a.s.t., establish meridian with solar.

Thence I run

N. $0^{\circ}02'$ E. on random retracement line between secs. 33 and 34.

40.00 No trace of old corner; set stake for temporary 1/2 sec. corner.

80.00 No trace of old corner; set stake for temporary corner of secs. 27, 28, 33 and 34.

PAYSON.

Thence from stake for temporary corner of secs. 27, 28, 33 and 34, I run

N. $0^{\circ}02'$ E. on random line between secs. 27 and 28.

40.00 No trace or evidence of old corner; set stake for temporary 1/2 sec. corner.

80.00 No trace of ~~retracement line~~ corner of secs. 21, 22, 27 and 28; set stake for temporary corner.

Thence I run

N. $0^{\circ}02'$ E. on random line between secs. 21 and 22.

40.00 No trace of 1/2 corner; set stake for temporary 1/2 sec. corner.

80.00 No trace of corner of secs. 15, 16, 21 and 22; set stake for temporary corner. ^{Oldest} Settlers claims that corners have never been set and that old survey was not made further west than one mile east of this line.

November 9, 1904.

PAYSON FOREST RESERVE BOUNDARY.

T. 10 S., R. 3 E.

	November 11:	
Chains.	Random Line.	
	From corner of secs. 26, 27, 34 and 35, which is a quartzite stone 12x8x6 ins. above ground, set in small pile of stone, correctly marked.	
	Thence I run	
	West on random line between secs. 27 and 34, through oak brush.	
5.00	Begin descent, bears N. E. and S. W.	
13.55	Draw, 10 lks. wide, course N., base of 90-foot descent, begin ascent.	
20.60	Fence, bears N. 20° W. and S. 20° E.	
25.00	Top of 100-foot ascent on N. slope of spur, begin descent.	
36.70	Draw, 5 lks. wide, course N. 20° E., base of 50-foot descent; begin ascent.	
40.00	No trace or evidence of $\frac{1}{4}$ sec. corner; set stake for temporary $\frac{1}{4}$ sec. corner.	
42.70	Draw, 5 lks. wide, course N. 30° E.	
51.50	Top of 100-foot ascent on N. end of spur, begin descent, bears N. E. and S. W.	
78.90	Stake set on random N. line bears S. 78 lks.	
80.00	Set iron post No. 44 for corner of secs. 27, 28, 33 and 34, as described on true line N. between secs. 33 and 34.	
	As $\frac{1}{4}$ sec. corner does not affect my line I do not set same.	
	November 11, 1904.	
	November 12:	
	From corner of secs. 22, 23, 26 and 27, which is a sandstone 6x4x4 ins. above ground, correctly marked.	
	Thence west between secs. 22 and 27, over cultivated field; fence from corner runs N. 89°30' W.	
4.50	Draw, 5 lks. wide, course S.	
12.30	Irrigation ditch, 4 lks. wide, 6 ins. deep, course S. 88° E.	
14.80	Fence bears N. 60° W. and S. 60° E.; leave field.	
15.40	Road bears N. 60° W. and S. 60° E.; enter dense timber and underbrush in bottom land.	
20.60	Bennies Creek, 15 lks. wide, 12 ins. deep, course S. 80° E.	
26.00	Leave bottom land and timber, begin ascent through oak brush.	
39.85	Irrigation ditch course S. E.	
40.00	No trace or evidence of $\frac{1}{4}$ sec. corner.	
65.50	Draw, 10 lks. wide, course N. 80° E.	
77.76	Stake driven on random north line, from south boundary of township, bears S. 224 lks.	
79.35	Road bears N. E. and S. W.	
80.00	Set flint stone for corner of secs. 21, 22, 27 and 28, described on true line north between secs. 27 and 28.	
	$\frac{1}{4}$ sec. corner does not affect my line and is therefore not set.	
	From corner of secs. 14, 15, 22 and 23, which is a compact sandstone, or quartzite, 12x6x10 ins. above ground, marked correctly.	
	Thence I run	
	West on random line between secs. 15 and 22, over rolling land covered with sage and cluster oak brush.	
.10	Farm road, bears N. W. and S. E.	
2.20	Wash, 5 lks. wide, course S. E.	
3.20	Wash, 5 lks. wide, course S. E.	
10.70	Farm road, bears N. and S.	
21.40	Fence bears E. and S.	
22.00	House bears S. 5.00 chs. dist.	
26.50	Irrigation ditch, course N. E.	
36.70	Draw, 10 lks. wide, course S. 20° E.	
40.00	No trace of $\frac{1}{4}$ sec. corner found.	
58.00	Draw, 10 lks. wide, course S. E.	

PAYSON FOREST RESERVE BOUNDARY.

T. 10 S., R. 3 E.

Chains.
60.00 Begin abrupt ascent bears N. 30° W. and S. 30° E.
65.00 Top of 100-foot ascent bears N. and S. 30° E.
75.00 Draw, 10 lks. wide, course S. 10° E.
75.34 Stake set for temporary corner on random line from south boundary of township, bears S. 7.69 chs.
80.00 Set iron U. S. Forest Reserve Boundary Post No. 46, as described on true line between secs. 21 and 22. 1/2 sec. corner does not affect my line and is therefore not set.

CHECK LINES.

As there exist large errors in lines between secs. 26 and 27 and between secs. 22 and 23 I run check lines to prove my own work.

From corner of secs. 26, 27, 34 and 35 I run North on random line between secs. 26 and 27.

81.50 Intersect E. and W. sec. line 110 lks. east of corner of secs. 22, 23, 26 and 27, which gives true bearing of N. 0°47' W.

Thence from corner of secs. 22, 23, 26 and 27 I run North on check random line between secs. 22 and 23.

85.49 Intersect E. and W. sec. line 256 lks. E. of corner of secs. 14, 15, 22 and 23, which gives true bearing of N. 1°50' W., which proves my work around sec. 22 and around sec. 27 to be within a few lks. of correct.

November 12, 1904.

TRUE LINE.

November 9:

From standard corner of secs. 33 and 34 on south boundary of T. 10 S., R. 3 E., previously described, I run

N. 0°47' W. on true line between secs. 33 and 34, over rolling land dotted with clusters of oak brush.

8.20 Flat draw, 8 lks. wide, course S. E., begin gradual ascent.

18.00 Top of 50-foot ascent on ridge bears N. and W.; begin gradual descent bears N. and W.

33.50 Begin abrupt descent bears N. and W., through dense oak brush.

40.39 Set quartzite stone 18x10x6 ins., 11 ins. in ground for 1/2 sec. corner, marked 1 on W. face, and build mound of stone 3 ft. base, 2 ft. high, W. of corner; pits impracticable.

48.20 Side hill draw, 5 lks. wide, course N. 30° E.

60.60 Draw, 8 lks. wide, course N. E., base of 300-foot descent.

68.00 Draw, 10 lks. wide, course N. for 10.00 chs., then N. E.; begin ascent bears N. and E.

77.00 Top of 50-foot ascent on E. end of spur.

80.78 Set iron U. S. Forest Reserve Boundary Post No. 44, 26 ins. in ground and build mound of stone, 5 ft. base, 1 1/2 ft. high, around same for corner of secs. 27, 28, 33 and 34, marked:

T 10 S S 27 in N. E. quadrant

R 3 E S 34 in S. E. quadrant

S 33 in S. W. quadrant

S 28 in N. W. quadrant

RESERVE in N. W. and S. W. quadrants, with 1

notch on S. and 3 on N. sides, and build mound of stone, 4 ft. base, 2 1/2 ft. high, S. of corner.

Land, rolling and hilly.

Soil, rocky and gravelly, 4th rate.

Timber, oak brush in clusters.

From corner of secs. 27, 28, 33 and 34, I run N. 0°48' W. on true line between secs. 27 and 28 over rolling land through dense oak brush.

6.40 Flat draw, 10 lks. wide, course N. E.

31.00 Draw, 15 lks. wide, course S. 60° E.

RAYSON FOREST RESERVE BOUNDARY.

T. 10 S., R. 3 E.

Chains	
39.00	Irrigation ditch, 4 lks. wide, 4 ft. banks, course S. E.
40.75	True point for $\frac{1}{2}$ sec. corner falls in bog hole, 10 lks. S. of this point.
40.63	Set flint stone 26x12x8 ins., 18 ins. in ground for W. C. sec. corner, marked W. C. $\frac{1}{2}$ on W. face, and build mound of stone 3 $\frac{1}{2}$ ft. base, 2 $\frac{1}{2}$ ft. high, W. of corner.
48.00	East end of low brushy spur.
54.90	Spring brook, 3 lks. wide, 1 ins. deep, course N. 60° E.
62.20	East end of low spur, begin descent, bears E. and W.
72.80	Dry branch, 10 lks. wide, course N. 60° E., some water in pools; base of 80-foot descent, thence over rolling bench.
79.80	Road bears E. E. and S. W.
81.46	Set flint stone 24x10x8 ins., 18 ins. in the ground for corner of secs. 21, 22, 27 and 28, marked with 3 notches on E. and 2 on S. faces, and build mound of stone, 4 ft. base, 3 ft. high, W. of corner; pits impracticable.
	Land, rolling.
	Soil, gravelly and loam, 3rd and 4th rate.
	Timber, scrub oak brush.

November 9, 1904.

November 10:

	From corner of secs. 21, 22, 27 and 28 I run N. 1°37' W. on true line between secs. 21 and 22, over rolling surface, covered with sage brush and cluster oak brush.
3.00	Begin descent, bears E. and W.
13.30	Draw, 10 lks. wide, course E.; base of 50-foot descent; begin ascent.
21.20	Top of 50-foot ascent on E. slope.
28.00	Irrigation ditch, 5 lks. wide, 6 ins. deep, course S. 60° E.
31.30	Bennie Creek, 15 lks. wide, 12 ins. deep, clear fresh water, course S. 60° E., base of 60-foot descent.
33.65	Road bears N. 60° W. and S. 60° E.
33.77	Set iron U. S. Forest Reserve Boundary Post No. 45, 30 ins. in ground, and build mound of stone, 4 $\frac{1}{2}$ ft. base, 1 ft. high around same for boundary line marking, marked: RESERVE in N. W. and S. W. quadrants, from which: A fir, 14 ins. diam., bears N. 64°15' W., 112 lks. dist., marked RES F.R.B.P. No. 45 B T An aspen, 10 ins. diam., bears S. 83° E., 33 lks. dist., marked F.R.B.P. No. 45 B T
35.90	Spring on line, drains to S. E.; begin ascent, bears N. 60° W. and S. 60° E.
42.72 $\frac{1}{2}$	Set sandstone 20x8x4 ins., 15 ins. in ground for $\frac{1}{2}$ sec. corner, marked on W. face, and build mound of stone, 4 ft. base, 3 ft. high, W. of corner.
70.00	Top of 150-foot ascent on gradual S. E. slope, thence along E. slope.
85.45	Set iron U. S. Forest Reserve Boundary Post No. 46, 30 ins. in ground, and build mound of stone, 5 ft. base, 1 $\frac{1}{2}$ ft. high, around same for corner of secs. 15, 16, 21 and 22, marked: T 10 S S 15 in N. E. quadrant R 3 E S 22 in S. E. quadrant S 21 in S. W. quadrant S 16 in N. W. quadrant RESERVE in N. W. and S. W. quadrants, with 3 notches on E. and W. sides, and build mound of stone, 4 ft. base, 3 ft. high, W. of corner. Pits impracticable.

PAYSON FOREST RESERVE BOUNDARY.

T. 10 S., R. 3 E.

Chains. Land, rolling and hilly.
Soil, gravelly and loam in creek bottom, 2nd and 4th rate.
Timber, scattering cottonwood, aspen and fir along Bonnie Creek; scrub oak brush on hills.

November 10, 1904.

here

November 14:

At corner of secs. 15, 16, 21 and 22 I set off 39°56'15" on latitude arc and 18°09'15" S. on declination arc and at 8 a.m., a.s.t., establish meridian with solar.

Thence I run

N. 0°02' W. on true line between secs. 15 and 16, through dense oak brush, ascending along E. slope of spur.

7.70

Head of draw, course S. 30° E.

13.00

Draw, 10 lks. wide, 15 ft. deep, course S. 20° E.

20.00

Top of 350-foot ascent on steep E. slope.

23.00

Begin descent, bears N. 20° W. and S. 10° E.

28.00

Draw, 10 lks. wide, course E., base of 50-foot descent.

32.80

Draw, 10 lks. wide, course S. 60° E.

35.85

Draw, 10 lks. wide, course S. 60° E., begin ascent.

40.00

Set limestone 26x12x4 ins., 15 ins. in ground to solid rock, for sec. corner, marked X on W. face, and build mound of stone, 4 ft. base, 3 ft. high, N. of corner.

53.00

Top of 700-foot ascent on steep rocky E. slope of spur. Begin abrupt descent, bears N. 60° W. and S. 60° E.

59.00

Draw, 10 lks. wide, course E. Base of 100-foot descent; begin abrupt ascent.

55.00

Top of 100-foot ascent on steep E. slope.

66.00

Begin descent bears N. 30° W. and S. 30° E., along steep E. E. slope.

76.00

Draw, 8 lks. wide, course E.; base of 80-foot descent.

78.70

Draw, 10 lks. wide, course E. 70° E.

80.00

Set iron U. S. Forest Reserve Boundary Post No. 47, 26 ins. in ground, for corner of secs. 9, 10, 15 and 16, marked:

T 10 S. 10 in N. E. quadrant

R 3 E. 15 in S. E. quadrant

S 16 in S. W. quadrant

S 9 in N. W. quadrant

RESERVE in N. W. and S. W. quadrants, with 3 notches on E. and 4 on W. sides, and build mound of stone, 4 ft. base and 15 ft. high, around post; mound of stone, 3 ft. base, 21 ft. high, W. of corner; pits impracticable.

From corner, mouth of tunnel bears N. 1°45' W. about 21.30 chs.

Land, rolling and mountainous.

Soil, rocky and gravelly, 4th rate.

Timber, scrub oak brush.

At corner of secs. 9, 10, 15 and 16 I set off 18°15' S. on declination arc and at 15^h30^m before noon, l.m.t., observe sun on meridian and obtain a reading of 39°57' on latitude arc.

Thence I run

N. 0°02' W. on true line between secs. 9 and 10, over rolling ground, through dense oak brush.

1.30

Draw, 8 lks. wide, course S. 60° E.

3.10

Draw, 8 lks. wide, course S. 60° E.

5.15

Draw, 10 lks. wide, course S. E.; begin abrupt ascent, bears N. 70° W. and S. 70° E.

PAYSON FOREST RESERVE BOUNDARY.

T. 10 S., R. 3 E.

Chains	
16.75	Trail to mine bears N. W. and S. E.
21.50	Mouth of tunnel bears W., about 70 lks. dist.
25.80	Top of 850-foot ascent on ridge, bears N. 70° W. and S. 70° E. At this point I build mound of stone, 4 ft. base, 3 ft. high, around flag pole, for line marking.
26.50	Begin abrupt descent bears N. W. and S. E.
31.00	Enter aspen thicket, bears E. and W.
40.00	Set sandstone 24x10x12 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face, from which An aspen, 6 ins. diam., bears N. 41° E., 13 lks. dist., marked $\frac{1}{4}$ S 10 B T An aspen, 6 ins. diam., bears S. 43° W., 40 lks. dist., marked RES $\frac{1}{4}$ S 9 B T November 14, 1904. November 15: At this $\frac{1}{4}$ sec. corner I set off 39°57'30" on latitude arc and 18°24'45" S. on declination arc and at 8 a.m., a.s.t., establish meridian with solar. Thence I continue N. 0°02' W.
42.15	Draw, 10 lks. wide, course S. 60° E., base of 500-foot descent; begin abrupt ascent; leave aspen timber; enter scrub oak brush.
46.70	Wash 5 lks. wide, course S. E.
55.25	Top of 500 ft. ascent on ridge bears E. and W. At this point I build mound of stone, 4 ft. base, 3 ft. high, around flag pole, for line marking. Begin abrupt descent.
57.00	Enter aspen timber, bears E. and W.
67.70	Draw, 10 lks. wide, course E.; base of 400-foot descent; begin abrupt ascent; leave aspen, enter oak brush.
79.00	Top of 500-foot ascent, bears N. E. and S. W.; enter aspen timber.
80.00	Set iron U. S. Forest Reserve Boundary Post No. 48, 28 ins. in ground, and build mound of stone, 4 ft. base, 15 ft. high, around same for corner of secs. 3, 4, 9 and 10, marked: T 10 S S 3 in N. E. quadrant R 3 E S 10 in S. E. quadrant S 9 in S. W. quadrant S 4 in N. W. quadrant RESERVE in N. W. and S. W. quadrants, with 5 notches on S. and 3 on E. sides, from which: An aspen, 3 ins. diam., bears E. 60° E., 12 lks. dist., marked T 10 S R 3 E S 3 B T An aspen, 3 ins. diam., bears S. 31°30' W., 36 lks. dist., marked RES T 10 S R 3 E S 9 B T No other trees available. Land, mountainous. Soil, rocky and gravelly, 4th rate. Timber, aspen and scrub oak brush.

From corner of secs. 3, 4, 9 and 10 I run N. 0°02' W. on true line between secs. 3 and 4, through aspen timber.

1.50	Begin abrupt descent, bears E. and W., through aspen and scattering fir timber.
15.75	Base of abrupt descent, continue gradual descent, bears E. and W.
17.60	Drag trail bears E. and W.
22.30	Draw, 10 lks. wide, 15 ft. banks, course E. 70° E., base of 450-foot descent.
25.00	Begin ascent, leave aspen, enter oak brush, bears E. and W.
30.50	Top of 80-foot ascent on spur bears E. and W. Leave oak brush, enter aspen thicket, bears E. and W.
32.90	Draw, 10 lks. wide, course E.
40.00	Set sandstone 26x12x5 ins., 18 ins. in ground, for

PAYSON FOREST RESERVE BOUNDARY.

T. 10 S., R. 3 E.

1/4 sec. corner, between secs. 3 and 4, marked 1/4
on W. face, from which:
An aspen, 4 ins. diam., bears N. 50 E., 3 lks.
dist., marked 1/4 S S E T
An aspen, 4 ins. diam., bears N. 7 W., 32 lks.
dist., marked RRS 1/4 S 4 E T
Corner falls in aspen covered swail sloping to the
east.
Snow p.m. prevents further work and line is discon-
tinued here for the season.

November 15, 1904.

Jno. P. Walker,

U. S. Surveyor.

PAYSON FOREST RESERVE BOUNDARY.

S. Edy. T 9 S R., 3 E.

Chains

Survey of Payson Forest Reserve boundary lines, commenced June 24th, 1905, and executed with a Young & Sons light mountain transit with solar attachment, No. 6836. The horizontal limb is provided with two opposite verniers, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

I begin at the $1/4$ sec. cor. between Secs. 3 and 4, T 10 S., R. 3 E., heretofore described by Mr. J. P. Walker, and carry line north $1/2$ mile and then to the West along S. boundary of Tp. 9 S., R. 3 E., as instructed, but when nearly to the range line, between Ranges 2 and 3, E., find that the S. boundary of Tp. 9 S., R. 3 E., had previously been surveyed. Therefore I return to Mr. Walker's line and find the following conditions:

July 7, 1905.

At the $1/4$ sec. cor. on S. Edy., Sec. 34, T 9 S., R. 3 E., which is a conglomerate stone $14 \times 8 \times 8$ ins. above ground, properly marked and witnessed by small round of stones around same.

At 2 p.m., I set off $32^{\circ}39'$ N. on the declination arc, $39^{\circ}59'$ E. on the latitude arc, and determine a true meridian, with the solar.

Longitude $111^{\circ}40'$ W.

Latitude $39^{\circ}59' 16''$ N.

Mag. declination $16^{\circ}53'$ E.

Thence I run

West on a range line along S. boundary, Sec. 34, west half.

9.21

Intersect cor. of secs. 33 and 34 which is a sandstone $14 \times 12 \times 7$ ins., properly marked and witnessed by round of stone N. of corner.

Thence I run

East on a true line along south boundary of sec. 34. Descending along south side of ridge above Grab Creek, through oak brush and aspen.

.06

Set Iron U. S. Forest Reserve Boundary Post No. 50 with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground for witness cor. to corner of secs. 33 and 34, marked on cap

W. C. T 9 S. R. 34 on N. E.

R. 3 E. S. 33 on N. W.

No. 50 on S. and 1905 on top.

RESERVE on S. sides of top, with 3 notches on N. and E. edges of rim.

2.55

Cattle trail bears N. and S.

4.20

Change to N. side of ridge.

5.71

Intersect N. and S. line between sections 3 and 4, T 10 S., R. 3 E., 3.00 chs. S. of $1/4$ Sec. Cor. set by Mr. Walker after destroying marks on bearing trees and stone, at point of intersection, I set a sandstone $24 \times 16 \times 12$ ins., 18 ins. in the ground, for closing corner of secs. 3 and 4, marked C. C. on S. face, and 3 grooves on E. and W. sides from which

An aspen, 5 ins. diam., bears S. $48^{\circ}30'$ E., 43 lks. dist., marked T 10 S., R. 3 E., S 3, B.T.

An aspen, 4 ins. diam., bears S. $71^{\circ}45'$ E.,

73 lks. dist., marked T. 10 S., R. 3 E., S 4, B. T.

At a point 6 lks. south of above described corner, I set boundary post No. 49, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to closing corner of secs. 3 and 4, marked on cap

W. C. T 10 S. S. 3 on S. E.

R. 3 E. S 4 on S. W.

C. C. on S.

PAYSON FOREST RESERVE BOUNDARY.
S. Bdy., T 9 S., R. 3 E.

- ains. No. 49 on S. and 1905 on top.
RESERVE on S. W. quadrant, with 3 notches
on E. and W. edges of rim.
59.21 1/4 sec. cor. heretofore described.
Land, mountainous.
Soil, 3rd rate.
Timber, aspen and a dense growth of oak and aspen
brush.
Formation, limestone.
This 1/4 sec. cor. is about 550 ft. below sec. cor.
July 7th, 1905.
-
- July 8, 1905.
At the corner of Secs. 33 and 34, at 8 a. m. l. m. t.
I set off 22°32' N. on the declination arc and 39°
59' W. on the latitude arc and determine a true
meridian with the solar.
Thence I run
West on a random line between secs. 4 and 33.
10.00 Point for 1/4 sec. cor. falls in loose rock, just
below some small ledges. Find no trace of 1/4
sec. corner.
16.50 Set temporary stake for witness corner, to 1/4 sec.
corner at this point.
I set off 22°30' N. on the declination arc, and at
13⁴⁵ l. m. t. observe the sun on the meridian, and
obtain a reading of 39°59' on the latitude arc,
which is within 1' of the proper latitude
79.59 Intersect N. and S. line, 35 lks. W. of corner of
Secs. 4, 5, 32 and 33, which is a limestone 8x6x14 ins.
above ground, properly marked and witnessed by
mound of stone N. of corner.
Thence I run
N. 89°45' E. on a true line between secs. 4 and 33.
Descending over open land.
15.60 Drain, course S. 60° E. This is at the head of
Grab Creek.
33.09 Set a sandstone 20x12x6 ins., 15 ins. in the ground,
for witness corner, to 1/4 sec. cor., marked
W. C. 1/4 on N. face; raise a mound of stone 3 1/2
ft. base 1 1/2 ft. high N. of corner.
39.79 True point for 1/4 sec. cor. falls on unsafe ground.
Thence along rough S. slope.
56.60 Spur, slopes S. E. from main ridge, enter brush
N. and S.
79.59 Cor. of secs. 33 and 34, heretofore described.
Land, mountainous.
Soil, 4th rate.
No timber, oak brush.
Formation, limestone.
July 8, 1905.

- July 9, 1905.
At the corner of secs. 4, 5, 32 and 33, at 8 a. m.
I set off 22°35' N. on the declination arc, and
39°59' W. on the latitude arc and determine a true
meridian with the solar.
Thence I run
West on a random line, between secs. 5 and 32.
10.43 Intersect N. and S. line 2 lks. W. of 1/4 Sec. Cor.,
which is a limestone 4x9x10 ins. above ground,
properly marked and witnessed by bearing trees.
Thence I run
N. 89°58' E., on a true line between secs. 5 and 32,
east half.
Gradually ascending S. W. slope, through a few
scattering pine.
3.55 Top of ascent bears N. W. and S. E..
This is top of small ridge passing from point to
point along top of Loafer Mountain, and divide

PAYSON FOREST RESERVE BOUNDARY.

S. Bdy. T. 9 S., R. 3 E.

Chains.	between Loufer and Maple Grove Hollows.
17.40	Head of Maple Grove Hollow, course N., about 600 ft. below top of ridge, ascend.
30.30	Top of long ridge bears N. 20°E. and S. 20°W., about 500 ft. above hollow. Divide between Maple Grove Hollow and Crab Creek, descend.
34' 00	Leave scattering timber, bears N. and S.
40:37	Set Iron U. S. Forest Reserve Boundary Post, No. 51, with a brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, and mound of stone, for witness corner, to corner of secs. 4, 5, 32 and 33, marked on cap T 9 S. S 33 on N. E. R. 3 E. S 4 on S. E. T 10 S. S 5 on S. W. S 32 on N. W. and No. 51 on S. and 1905 on top. RESERVE on S. side of top with 4 notches on E. and 2 notches on W. edges of rim.
40.43	Corner of secs. 4, 5, 32 and 33, heretofore described. From 1/4 sec. corner between secs. 5 and 32, I run West on a random line between secs. 5 and 32, west half.
30.00	At this point, I set off 22°23'N. on the declination arc and at 12 ⁴⁵ 1.m.t. observe the sun on the meridian and obtain a reading of 39°59'N. on the latitude arc.
41.05	Intersect N. and S. line 12 lks. N. of corner of secs. 5, 6, 31 and 32 which is a limestone 5x8x10 ins. above ground, properly marked and witnessed by mound of stone N. of corner. The mound was in bad condition, therefore I rebuild mound of stone 3 1/2 ft. base, 1 1/2 ft. high W. of corner around post. To further perpetuate corner A pine, 15 ins. diam., bears N. 2°E. 115 lks. dist., marked T 9 S., R 3 E., S 32, S. T. A pine 7 ins. diam., bears S. 15°30'E., 169 lks. dist., marked T 10 S., R. 3 E., S 5, S. T. A pine 20 ins. diam., bears S. 31°30'W., 231 lks. dist., marked T 10 S., R 3 E., S 6, S. T. A pine 10 ins. diam., bears N. 32°45'W. 215 lks. dist., marked T 9 S., R 3 E., S 31 S. T. Thence I run N. 89°50'E., on a true line between secs. 5 and 32, west half. Ascending through scattering timber.
11.45	Top of high spur, slopes S. 15°W., 250 ft. above sec. corner, descend.
27.50	Head of Loufer Hollow, course S. W., 400 ft. below top of ridge, ascend 600 ft. to
41.05	1/4 sec. cor. heretofore described. Land, mountainous. Soil, 4th rate. Timber, pine. Formation, limestone.

July 9, 1905.

July 10, 1905.

At the corner of secs. 5, 6, 31 and 32, at 8¹³ 30m 1.m.t., I set off 22°17'N. on the declination arc, and 39°59'N. on the latitude arc, and determine a true meridian with the solar.

Thence I run

West on a random line, between secs. 6 and 31.

41.78 Intersect N. and S. line 3 lks. N. of 1/4 sec. cor. which is a limestone 4x8x8 ins. above ground, properly marked and witnessed by mound of stone N. of corner.

Thence I run

N. 89°57'E. on a true line between secs. 1 and 36,

PAYSON FOREST RESERVE BOUNDARY.

S. 84y., T. 9 S R 3 E.

	east half.
4.80	Ascending broken S. W. slope through oak brush.
13.70	Point of spur, slopes S. 60°W.
	Side hill drain, course S. 60°W.
	Enter scattering timber bears N. 60°E and S. 60°W.
27.80	Leave heavy brush, bearing N. and S.
35.50	Spur, slopes S. 60°W.
41.72	Side hill drain, course S. 60°W.
	Set U. S. Forest Reserve boundary Post No. 52, with a brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground for witness corner to corner of sections 5, 6, 31 and 32, marked on cap
	W. C. T 9 S S 31 on N. E.
	R 3 E S 5 on S. E.
	T 10 S S 6 on S. W.
	S 31 on N. W.
	No. 52 on S. and 1905 on top.
	RESERVE on South side of top with 5 notches on E. and 1 notch on W. edges of rim.
41.78	Corner of secs. 5, 6, 31 and 32, heretofore described.
	From 1/4 Sec. cor. between secs. 6 and 31, west on a random line between secs. 6 and 31, west half.
30.00	At this point, July 10, 1905, I set off 22°16' N. on the declination arc, and at 12 ⁴⁵ a.m.t., I observe the sun on the meridian and obtain a reading of 39°59' on the latitude arc.
67.09	Intersect N. and S. line, 41 lks. N. of closing corner of Tps. 9 and 10 S., R. 3 E, which is a limestone 4x4x10x6 ins. above ground properly marked, and witnessed by mound of stone 10 ft. N. of corner. To further perpetuate this corner I mark
	A pine 10 ins. diam., S. 47°45'E., 216 lks. dist., as follows: T 10 S R 3 E S 6, B.T.
	Also move mound of stone and raise mound of stone 3 1/2 ft. base, 1 1/2 ft. high around post E. of corner.
	Thence I run
	North 89°39' E. on a true line between secs. 6 and 31, west half.
	Descending N. W. slope, very rough and broken, through scattering timber.
1.06	Set U. S. Iron Forest Reserve Boundary Post No. 53, with a brass cap, 4 ft. long 4 ins. diam., 3 ft. in the ground and mound of stone for witness corner to closing corner of Tps. 9 and 10 S., R 3 E., marked on cap
	T 9 S. S. 31 on N. E.
	W. C. C. C. R 3 E on E.
	T 10 S S 6 on S. E.
	No. 53 on S. and 1905 on top.
	RESERVE on S. and W. sides of top, with 6 notches on N. E. and S. edges of rim.
4.60	Drain, course N.
	Enter heavy pine timber, bears N. and S.
15.10	Side hill drain, course N. 20°W.
17.60	Drag road, and drain in Loafer Hollow, course N. 60°W., about 300 ft. below closing corner and about 1400 ft. below corner of sections 5, 6, 31 and 32, ascend.
37.10	Spur slopes S. 60°W.
46.80	Side hill drain, course S. 60°W.
67.09	1/4 sec. cor. heretofore described.
	This corner is about 500 ft. above Loafer Hollow, and about 85 lks. N. E. of rock about 30 ft. high.
	Land, mountainous.
	Soil, 4th rate.
	Timber, pine and oak brush.
	Formation, limestone.

PAYSON FOREST RESERVE BOUNDARY.

S. 8dy T 9 S. R. 3 E.

Chains.	<p>From the closing corner of Tps. 9 and 10 S. R. 3 E., the corner of Tps. 9 and 10 S., R. 2 E. is in sight, therefore I set flag on same, and run North 3° E., on a true line between ranges 2 and 3 E. Descending through scattering timber and brush.</p> <p>13.75 Drain, in Leifer Hollow, course N. W. 350 ft. below closing corner.</p> <p>15.85 Drag Road, bears N. W. and S. E. Begin ascent.</p> <p>18.95 Rocky limestone spur slopes S. 60°W. Thence along steep W. slope through brush.</p> <p>23.45 The corner of Tps. 9 and 10 S.; R. 2 E., which is a limestone 14x10x6 ins. in mound of stone marked as described by General Land Office. To further perpetuate this corner A pine 10 ins. diam., bears N. 67°15'W., 132 lks. dist, marked T 9 S R 2 E S 36, E. T. No other suitable trees, raise a mound of stone 3 1/2 ft. base 1 1/2 ft. high W. of corner around post. Land, mountainous. Soil, 4th ratd. Timber, pine, oak brush. Formation, limestone.</p>
	<p>July 10, 1905.</p>
	<p>July 12, 1905.</p> <p>At the corner of Tps. 9 and 10 S., R 2 E., at 9 a.m. l.m.t., I set off 22°02'N. on the declination arc and 39°59'W. on the latitude arc and determine a true meridian with the solar.</p> <p>Thence I run N. 89°56'W. on a random line between secs. 1 and 36.</p> <p>40.00 Find no trace of 1/4 sec. cor. Set temporary corner.</p> <p>80.00 Find no trace of corner of secs. 1, 2, 35 and 36, set temporary corner.</p> <p>At the temporary corner of secs. 1, 2, 35 and 36, I set off 22°W. on the declination arc, and at 12h 54, l.m.t., observe the sun on the meridian and obtain a reading of 39°59' on the latitude arc which is within 1' of the proper latitude.</p> <p>120.00 I find stone properly marked laying on top of ground at a point 1.38 chs. west of here, but search fails to reveal where it belonged, therefore set temporary stake for 1/4 sec. cor. and proceed.</p> <p>133.60 Center of road to canyon, bears N. and S. as reported by General Land Office, corner should be in middle of this road. I find stone as described and properly marked, laying about 80 lks. S. and at one side, as road shows no indication of having been moved to E. or W. I take this for measurement, but continue random line N. 89°56'W. for bearing. Set temporary stake. N. 89°56'W. on random line between secs. 3 and 34, from temporary stake in road.</p> <p>39.62 Intersect T. and S. line, 82 lks. N. of 1/4 sec. Cor. which is a sandstone 6x8x6 ins. above ground, marked and witnessed as described by General Land Office.</p> <p>Thence I run N. 89°50'W. on a true line between secs. 3 and 34, east half.</p> <p>Gradually descending, through brush.</p> <p>7.10 Begin steep descent, bears N. and S.</p> <p>10.10 Payson Creek, 25 lks. wide, course N. 20°W., about 150 ft. below 1/4 sec. corner.</p> <p>11.48 Set Iron U. S. Forest Reserve Boundary Post, No. 58, with a brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, to mark boundary line near road, marked on cap</p>

PAYSON FOREST RESERVE BOUNDARY.

S. 84y. T 9 S., R. 2 E.

Maine.	1905 on top of cap. No. 58 on S. and RESERVE on south half of top.
11.57	Payson canyon road, bears N. 20°W. and S. E. Ascend.
24.60	Top of ascent, about 100 ft. above creek, thence over rolling land.
39.62	True point for corner of secs. 2, 3, 34 and 35, falls in middle of road. Therefore at a point 26 lks. E. at
39.82	I set a sandstone 24x14x10 ins., 18 ins. in the ground, for witness corner to corner of Secs. 2, 3, 34 and 35, marked "C." on N. E. face, with 2 notches on E. and 4 notches on W. edges of stone, raise a mound of stone 3 1/2 ft. base, 1 1/2 ft. high W. of corner around post. Land, rough and broken. Soil, 4rd rate. Timber, aspen along creek, and oak brush. Vegetation, sandstone.
	July 12, 1905.

	July 11, 1905.
	At the true point for corner of secs. 2, 3, 34, and 35, in middle of road, at 9 a.m., I set off 21°53' N. on the declination arc, and 32°50' E. on the altitude arc, and determine a true meridian with the solar.
	Thence I run
	N. 85°50' E. on a true line, between secs. 2 and 35.
	Over rolling land through oak brush.
.20	Set iron, U. S. Forest Reserve Boundary Post No. 47, with a brass cap, 4 ft. long, 4 ins. diam., to W. C. in ground and mound of stone for witness corner of secs. 2, 3, 34 and 35, marked on cap. T. C. 7 9 3 35 on N. E. R 2 3 3 1 on S. E. T 10 5 2 2 on S. W. S 34 on N. W.
	1905 on top.
	No. 57 on N. and
	RESERVE on S. side of top with 2 notches on E. 4 notches on W. edges of rim.
.26	Witness corner to corner of secs. 2, 3, 34 and 35.
7.10	Begin ascent, over rough broken land, general slope to the west.
22.10	Brain, course N.
34.65	Small irrigating ditch, water 1 lk. wide, course N. E.
36.60	Begin gradual ascent, bears N. and E.
42.20	Set sandstone 18x10x6 ins., 12 ins. in the ground, for 1/4 sec. corner, marked 1/4 on N. face. Raise a mound of stone 3 1/2 ft. base, 1 1/2 ft. high, W. of corner. Site irrefragable.
53.10	Foot of steep bank or terrace, about 25 ft. high, bears N. & S.
58.35	Old drag road bears N. 20°W. and S. 20°E.
66.10	Begin steep ascent of mountain bears N. and E.
81.74	Set iron, U. S. Forest Reserve Boundary Post No. 56, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of sections 1, 2, 35 and 36, marked on cap. T. C. 7 9 3 36 on N. E. T 10 5 2 2 on S. E. R 2 3 3 1 on S. W. S 35 on N. W.
	1905 on top.
	No 56 and
	RESERVE on S. sides of top with 1 notch on E. and 5 notches on W. edges of rim.
81.80	Set a limestone 18x12x6 ins., 12 ins. in the ground, for

PAYSON FOREST RESERVE BOUNDARY.

S. Ndy. T 9 S. R 2 E.

7.80	<p>corner of sections 1, 2, 35 and 36, marked with 1 notch on W. and 5 notches on E. edges. Dig pits 18x18x12 ins. in each section 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of corner.</p> <p>This corner is about 1000 ft. above corner of secs. 2, 3, 34 and 35.</p> <p>Land, mountainous.</p> <p>Soil, 2nd and 4th rates.</p> <p>Timber, some cherry with oak and maple brush.</p> <p>Formation, sandstone and limestone.</p>
40.90	<p>From the corner of sections 1, 2, 35 and 36, thence I run</p> <p>N. 89°50'E. on a true line between secs. 1 and 36, ascending through brush.</p> <p>Top of ascent, bears N. 20°W. and S. 20°E. about 150 ft. above section corner. Descend.</p> <p>Set a limestone 20x10x6 ins., 15 ins. in the ground, for 1/4 sec. cor. marked 1/4 on N. face:</p> <p>A pine 12 ins. diam., bears N. 46° E., 150 lks. dist., marked 1/4 S 36 S. T.</p> <p>A pine 10 ins. diam., bears S 3°W., 50 lks. dist., marked 1/4 S 1, S. T.</p>
40.90	Enter timber, bears N. and S. W.
44.40	Spring drain 1 1/2. wide, course N. E.
48.05	Drain, course N. E., about 600 ft. below top of mountain, ascend.
54.00	Top of spur, 75 ft. above drain, slopes N. 20°E. Descend.
57.57	Small trail to prospect hole, about 5.00 chs. N. of line.
71.80	Set Iron U. S. Forest Reserve Boundary Post No. 55, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, to mark boundary line along trail marked on cap
71.90	<p>1905 on top</p> <p>No. 55 and</p> <p>RESERVE on S. sides of top.</p>
74.00	Drag trail and drain in Loufer Hollow, course N. W. from N. 125 ft. below top of spur
81.74	<p>Drag trail, bears N. W. and S. W. ascend 125 ft. to</p> <p>Set Iron U. S. Forest Reserve Boundary Post No. 54, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground for witness corner to corner of Trns. 9 and 10 S. R 2 E., marked on cap</p> <p>T 10 S. S 1 on S. W.</p> <p>W. C. R 2 E on W.</p> <p>T 9 S. S 26 on N. W.</p> <p>1905 on top</p> <p>No. 54 on S.</p> <p>RESERVE on S. W. quadrant, with 6 notches on N., S., and W. edges of rim.</p>
81.80	<p>Corner of Trns. 9 and 10 S. Rgs. 2 E., heretofore described.</p> <p>Land, mountainous.</p> <p>Soil, 4th rate.</p> <p>Timber, pine and aspen, with oak and maple brush.</p> <p>Formation, limestone.</p>

July 13, 1905.

July 14, 1905.

At the 1/4 sec. corner between secs. 3 and 34 at 8:30 a.m. ~~ixix~~ I set off 21°45'N. on the declination arc and 39°59' N. on the latitude arc, and determine a true meridian with the solar.

Thence I run

West on random line between secs. 3 and 34, west half.

PAYSON FOREST RESERVE BOUNDARY.

S. 8dy. T. 9 S. Rg. 2 E.

chains.

40.62

Note:- I consider it best to run random line west although notes give bearing of line N. $89^{\circ}56'W.$)
Intersect N. and S. line 24 lks. N. of Cor. of secs. 3, 4, 33 and 34, which is a sandstone $18 \times 12 \times 10$ ins. set in mound of stone, marked as described by General Land Office.

To further establish corner, I raise a mound of stone $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high, W. of corner around post.

Thence I run

N. $89^{\circ}40'E.$ on a true line, between secs. 3 and 34, west half.

Descending through heavy oak brush.

40.62

$\frac{1}{4}$ sec. cor. heretofore described.

Land, mountainous.

Soil, 4th rate.

No timber. Heavy oak brush.

Formation, limestone and sandstone.

This corner is about 800 ft. below sec. corner.

Close work at 11 a.m. on account of rain.

July 14, 1905. *run*

July 15, 1905.

At the corner of secs. 3, 4, 33 and 34, at 8 a.m., I set off $21^{\circ}36'W.$ on the declination arc and $39^{\circ}59'W.$ on the latitude arc, and determine a true meridian with the solar.

Thence I run

West on a random line between secs. 4 and 33.

40.00

Find no trace of $\frac{1}{4}$ sec. corner.

Set temporary stake.

At this point I set off $21^{\circ}34'W.$ on the declination arc and at $12^{\text{h}}5^{\text{m}}30^{\text{s}}$ observe the sun on the meridian and obtain a reading of $39^{\circ}59'$ on the latitude arc which is within $1'$ of the proper latitude.

80.00

Find no trace of corner of sections 4, 5, 32 and 33, set temporary corner.

July 15, 1905.

July 17, 1905.

At the temporary corner of secs. 4, 5, 32 and 33, at $8^{\text{h}}15^{\text{m}}$ a.m. l.m.t., I set off $21^{\circ}16'W.$ on the declination arc, and $39^{\circ}59'W.$ on the latitude arc, and determine a true meridian with the solar.

Thence I run

West on random line between secs. 5 and 32.

120.00

Find no trace of $\frac{1}{4}$ sec. cor. Set temporary corner.

164.92

Intersect N. and S. line 256 lks. N. of corner of Secs. 5, 6, 31 and 32, which is a sandstone $7 \times 7 \times 4$ ins. above ground, marked as described by General Land Office, but mound of stone W. of corner, has been knocked down. I rebuild the same $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high W. of corner.

At this corner, July 17, 1905, I set off $21^{\circ}14'W.$ on the declination arc, and at $12^{\text{h}}6^{\text{m}}$ l.m.t., observe the sun on the meridian and obtain a reading of $39^{\circ}59'$ on the latitude arc.

Thence I run

North $89^{\circ}07'E.$ on a true line between secs. 5 and 32.

From corner on W. slope of spur sloping N. through scattering oak brush.

1.40

Top of spur sloping N. descend to

7.50

Small drain, course N. W., ascend.

19.15

Top of spur, slopes N. about 100 ft. above drain, thence over rough broken N. slope through heavy oak brush.

26.10

Top of low spur slopes N. descend.

32.15

Drain, course N. $20^{\circ}W.$ about 25 ft. below spur, ascend.

PAYSON FOREST RESERVE BOUNDARY.

S. Rdy. T 9 S. R 2 E.

Chains.
36.55

The true point for 1/4 sec. corner falling in ledges and unsafe ground, therefore at this point set a granite stone 24x16x8 ins., 18 ins. in ground, for witness corner to 1/4 sec. corner, marked W. C. 1/4 on N. face and raise a mound of stone 3 1/2 ft. base, 1 1/2 ft. high, N. of corner. Pits impracticable.

This corner stands just on W. side of ridge, sloping N. 20° W. about 100 ft. above drain.

Descend.

41.23

True point for 1/4 sec. corner.

43.15

Drain, course N. 20° W. about 125 ft. below 1/4 sec. corner.

Begin steep ascent.

69.40

Top of limestone ledges about 150 ft. high, bears N. and S.

70.90

Top of mountain, bears N. and S. about 800 ft. above drain, thence over rolling land descending.

82.40

Set Iron U. S. Forest Reserve Boundary Post No. 60, with a brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of sections 4, 5, 32 and 33, marked on cap

W. C. T 9 S. R 2 E 33 on N. E.

E 2 S. S 4 on S. E.

T 10 S. R 2 E on S. W.

E 32 on N. W.

100 ft. on top

No 60 and

RESERVE on S. sides of top with 4 notches on E. and 2 notches on W. edges of rim.

82.46

Set a sandstone 16x15x5 ins., 12 ins. in the ground, for corner of secs. 4, 5, 32 and 33, marked with 4 notches on E., and 2 notches on W. edges, from which

A pine 10 ins. diam., bears S. 53° E., 121 lks. dist., marked T 10 S. R 2 E. S 4 E. T.

A pine 7 ins. diam., bears S. 77° W., 50 lks. dist., marked T 10 S. R 2 E. S 5 E. T.

Also raise a mound of stone 3 1/2 ft. base, 1 1/2 ft. high. W. of corner.

Corner stands on top of ridge, bearing N. and S.

Land, mountainous.

Soil, 4th rate.

Timber, a few mahogany on top of mountains. Oak brush. Formation, granite and limestone.

From the corner of secs. 4, 5, 32 and 33, thence I run North 89° 07' E. on a true line between secs. 4 and 33.

Descending from corner through oak brush.

Enter pine timber, bears N. E. and N. W.

Drain, course N. 11° E., noon N. W., about 500 ft. below sec. corner.

Leave pine timber, bears N. and S.

Continue in heavy aspen.

Leave aspen, bears N. and S.

Top of ridge, bears N. and S. xx 200 ft. above drain.

Descend.

Set a limestone 12x12x7 ins., 12 ins. in the ground for 1/4 sec. corner marked 1/4 on N. face, from which

A maple 5 ins. diam., bears N. 37° E., 18 lks. dist., marked 1/4 S. 33 E. T.

A maple 4 ins. diam., bears S. 67° W., 39 lks. dist., marked 1/4 S. 4 E. T.

Tim road bears N. and S.

Drain, course N. 500 ft. below top of ridge, drain skirted with heavy aspen.

Top of small ridge, slopes N. 100 ft. above drain.

Begin descent.

2.50

17.15

19.45

27.45

41.23

42.80

46.00

51.40

PAYSON FOREST RESERVE BOUNDARY.

S. Bdy. T. 9 S., R. 2 E.

Chains.

- 56.20 Drain, course N. 75 ft. below ridge, ascend.
 66.70 Top of ridge, bears N. and S.
 Sloping N. 300 ft. above drain, descend.
 76.45 Gradual descent over bench bearing N. and S.
 80.40 Begin steep descent, N. and S.
 82.40 Set Iron, U. S. Forest Reserve Boundary Post No. 59,
 with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in
 the ground, and mound of stone for witness corner
 to corner of secs. 3, 4, 33 and 34, marked on cap
 W. C. T 9 S., S 34, on N. E.
 R 2 E S 3, on S. E.
 S 33 on N. W.
 T 10 S, S 4 on S. W.
 1905 on top.
 No. 59 and
 RESERVE on S. sides of top with 3 notches on
 E. and W. edges of rim.
 82.46 Cor. of secs. 3, 4, 33 and 34, heretofore described.
 Land, mountainous.
 Soil, 4th rate.
 Timber, pine and aspen, oak and maple brush.
 Formation, limestone.
 July 17, 1905.
-
- July 18, 1905.
 At the corner of secs. 5, 6, 31 and 32 on S. Bdy.
 T. 9 S., R. 2 E., heretofore described, at 8 a.m.
 l.m.t., I set off 21°06' N. on the declination arc
 and 39°59' N. on the latitude arc and determine a
 true meridian with the solar.
 Thence I run
 South 0°08' W., on a random line, between secs. 5 and 6.
 45.18 Intersect E. and W. line 34 lks. E. of 1/4 sec. cor.
 which is a granite stone 7x9x6 ins. above ground,
 marked and witnessed as described by General Land
 Office.
 Thence I run
 North 0°35' E. on a true line between secs. 5 and 6,
 North half.
 Along west slope through oak brush.
 3.18 Begin descent, bears E. and W.
 14.95 Drain, course N. 0°0' W., about 400 ft. below top,
 thence over table land, nearly level to
 30.20 Begin descent, bears E. and W.
 36.90 Drain, course N. W. soon W., about 125 ft. below top
 ascend.
 40.00 Top of ascent, bears E. and W. about 75 ft. above drain.
 Descend about 50 ft. to corner.
 43.12 Set Iron U. S. Forest Reserve Boundary Post No. 61,
 which is an iron post, with brass cap, 4 ft. long,
 4 ins. diam., 3 ft. in the ground, for witness corner
 to corner of secs. 5, 6, 31 and 32, marked on cap
 W. C. T 9 S S 32 on N. E.
 R 2 E, S 5 on S. E.
 T 10 S S 6 on S. W.
 S 31 on N. W.
 1905 on top
 No. 61 on S. and
 RESERVE on S. E. quadrant, 5 notches on E. and 1
 notch on W. edges of rim.
 43.18 Cor. of secs. 5, 6, 31 and 32, heretofore described.
 From the 1/4 sec. corner between secs. 5 and 6, I run
 South 0°08' W. on a random line between secs. 5 and 6,
 south half.
 40.18 Intersect E. and W. line 19 lks. W. corner of secs.
 5, 6, 7 and 8, which is a stone 5x6x8 ins. above
 ground, marked and witnessed as described by
 General Land Office.
 Thence I run

PAYSON FOREST RESERVE BOUNDARY.

Subdivision Tp. 10 S., R. 2 E.

Chains.	N. 0°8'W. on a true line between secs. 5 and 6, south half. From corner, on top of ridge, which bears E. and W. descending through oak brush.
13.45	Drain, course N. 60°W. about 400 ft. below top of ridge, ascend.
34.60	Small side hill drain, course S. 60°W.
39.50	Top of ascent 250 ft. above drain, bears E. and W., thence along W. slope to
40.18	1/4 sec. corner, heretofore described. Land, mountainous. Soil, 4th rate. No timber, heavy oak brush. Formation, granite.
	At the corner of secs. 5, 6, 7 and 8, I set off 31°51' N. on the declination arc, and at 12 ⁴⁵ a.m. observe the sun on the meridian, and obtain a reading of 39°53' on the latitude arc. Thence I run South 0°3'W. on a random line between secs. 7 and 8. Intersect E. and W. line at 1/4 sec. corner which is a granite stone 10x6x6 ins. above ground, marked and witnessed as described by General Land Office. Thence I run North 0°3'W. on a true line between secs. 7 and 8, north half. Gradually ascending through oak brush. Top of ridge, bears E. and W. slopes W. Begin descent.
2.25	Drain, course N. 70°W., 600 ft. below top of ridge, ascend.
22.00	Top of ridge, bears E. and W. slopes W. 500 ft. above drain.
38.75	Descend 50 ft. to corner. Set Iron U. S. Forest Reserve Boundary Post No. 62, with brass cap, 4 ft. long, 4 ins. diam, 3 ft., in the ground, for witness corner to corner of secs. 5, 6, 7 and 8, marked on cap. W. C. T 10 S. S. 5 on N. E. R. 2 E. S. 8 on S. E. S. 7 on S. W. S. 6 on N. W. and 1905 on top No. 62 on S. RESERVE on E. side of top, with 5 notches on S. and E edges of rim.
40.75	Corner of secs. 5, 6, 7 and 8, heretofore described. From the 1/4 sec. corner between Secs. 7 and 8, S. 0°3'W. on a random line between Secs. 7 and 8, south half.
17.50	Close work July 18th, 1905. July 18, 1905.
	July 19, 1905. At this point at 9 a.m., I set off 20°54' N. on the declination arc and 39°57' N. on the latitude arc, and determine a true meridian with the solar, and continue random line.
43.22	Intersect E. and W. line 13 lks. E. of corner of secs. 8 and 17, which is a granite stone 6x8x6 ins. above ground, marked and witnessed as described by General Land Office. Thence I run North 0°7'W. on a true line on W. boundary Sec. 8. Ascend through oak brush. Top, slopes N. 70°W., begin steep descent.
.70	

PAIDON FURST AND ASSOCIATES, SUNDRIAL.

Subdivision Tp. 10 S., R., 2 E.

Chains.	
8.12	Find no trace of closing corner of secs. 7 and 18, reported at this point by General Land Office.
15.80	Drain, course N. 70°W. 600 ft. below top, ascend.
25.45	Granite ledge 20 ft. high, bears E. 15 ft. dist.
32.20	Top of ridge slopes W. 450 ft. above drain, descend 150 ft. to
38.20	Head of drain, course N. 80°W.
	Gradually ascend.
43.22	1/4 sec. cor. heretofore described.
	Land, mountainous.
	Soil, 4th rate.
	No timber, heavy oak brush on W. slopes, scattering on south slopes.
	Formation, granite.
	From the corner of Secs. 8 and 17, I run South 0°3' E. on a random line, between secs. 17 and 18.
23.75	July 19, 1905: At this point I set off 20°53' N. on declination arc, and at 12 ^h 46 ^m l.m.t. observe the sun on the meridian and obtain a reading of 39°57' on the latitude arc which is within 1' of the proper latitude.
40.62	Intersect E. and W. line 42 lks. W. of 1/4 Sec. corner which is a granite stone 6x10x5 ins. above ground marked and witnessed as described by General Land Office.
	Thence I run North 0°39' W. on a true line between Secs. 17 and 18.
	Descending through oak brush.
4.60	Small drain, course W. about 100 ft. below 1/4 Sec. corner ascend.
16.85	Top of spur, slopes N. 80°W., 125 ft. above drain, descend.
24.50	Side hill drain, course N. W.
27.35	Drain, course W. about 350 ft. below top of spur, ascend 400 ft. to corner.
40.56	Set Iron U. S. Forest Reserve Boundary Post No. 63, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner, to corner of secs. 8 and 17, marked on cap
	W. C. T 10 S. S 8 on N. E.
	R. T. E. S 17 on S. E.
	1905 on top
	No. 63 on S.
	RESERVE on E. side of top with 4 notches on S. and 5 notches on W. edges of rim.
40.62	Cor. of Secs. 8 and 17, heretofore described.
	From the 1/4 sec. cor. between Secs. 17 and 18, I run South 0°3' E. on a random line between secs. 17 and 18.
40.24	Intersect E. and W. line, 9 lks. W. of corner of Secs. 17, 18, 19 and 20, which is a granite stone 10x8x10 ins. above ground, marked as reported by General Land Office, and witnessed by one bearing tree as follows:
	A pine 20 ins. diam., bears N. 71°E., 24 lks. dist., marked T 10 N R 2 E S 18 B. T.
	I change sec. number to 17 as it should be. No stone mound.
	To further perpetuate corner
	A pine 24 ins. bears S. 31°45' E., 130 lks. dist., marked T 10 S R 2 E S 20, B.T.
	I raise a mound of stone 3 1/2 ft. base 1 1/2 ft. high, W. of corner, around post.
	Thence I run N. 0°11' W. on a true line between Secs. 17 and 18, south half.
	From corner on ridges sloping W.
.45	Begin descent.
7.45	Drain, course W. about 200 ft. below Cor. ascend.

PAYSON FOREST RESERVE BOUNDARY.

Subdivision Tp. 10 S. R. 2 E.

Chains.	
16.35	Top of ascent 125 ft. above drain, bears E. and W., thence along W. slope.
23.25	Begin descent, bears E. and W.
30.70	Drain in canyon, course W., about 200 ft. below top Ascend.
36.70	Top of ridge, slopes N. 70°W. 325 ft. above drain, descend 125 ft. to corner.
40.24	1/4 Sec. cor. heretofore described. Land, mountainous. Soil, 4th rate. No timber, oak brush. heavy on N. slope, light on S. Formation, granite.
39.13	From corner of Secs. 17, 18, 19 and 20 West on a random line, between Secs. 18 and 19. Intersect N. and S. line, 62 lks. S. of 1/4 Sec. Cor. which is a red granite stone 6x10x10 ins. above ground, marked and witnessed as described, by General Land Office. Thence I run South 89°06'E. on a true line between secs. 18 and 19. Over rolling bench land, through oak brush. Small drain course S. 15°W. Base of mountain, begin steep ascent. Granite ledge, 25 ft. high, bears N. and S. Set Iron, U. S. Forest Reserve Boundary Post No. 64, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in ground, and mound of rock, for witness corner to corner of secs. 17, 18, 19 and 20, marked on cap N. C. T 10 S. S 17 on N. E. R 2 E. S 20 on S. E. S 19 on S. W. S 18 on N. W. 1905 on top No. 64 on S., and RESERVE on E. and S. sides of top, with 3 notches on S. and 5 notches on E. edges of rim.
39.13	Corner of Secs. 17, 18, 19 and 20, heretofore described. From the 1/4 sec. cor., between Secs. 18 and 19, I run West on a random line, between secs. 18 and 19, west half.
39.76	Intersect N. and W. line 41 lks. N. of closing corner of Secs. 18 and 19, which is a limestone 6x8x6 ins. above ground, covered over with mound of stone, marked as described by General Land Office. Thence I run North 89°25'E. on a true line between secs. 18 and 19, west half. Corner at edge of Santaquin Creek bottom, bearing N. W. and S. E., ascending through scattering oak brush.
4.75	Top of ascent, bears N. W. and S. E. about 75 ft. above corner. Thence over rolling bench land, gradually ascending through oak brush.
39.76	1/4 Sec. cor. heretofore described. Land, rolling. Soil, 3rd and 4th rate. No timber, oak brush. Formation, granite.

July 19, 1905.

July 20, 1905.

From the closing corner of Secs. 18 and 19, at 7 a.m.

PAYSON FOREST RESERVE BOUNDARY.

W. Edy. T 10 S. R 2 E.

Chains.	1.m.t., I set off 20°45' N. on the declination arc, and 39°56' N. on the latitude arc and determine a true meridian with the solar.
	Thence I run
	South on a random line between Secs. 19 and 24.
40.00	Make diligent search for 10 chs.N. of this point for 1/4 sec. corner, but find no trace. Set temporary corner.
65.50	At this point, I set off 20°42' N. on the declination arc, and at 12 ⁴⁶ m 1.m.t., observe the sun on the meridian and obtain a reading of 39°55' N. on the latitude arc which is within 1' of the proper latitude.
82.82	Intersect E. and W. line, 35 lks. W. of corner of secs. 19, 24, 25 and 30, which is a limestone 4x8x10 ins. above ground, poorly set, and witnessed by three little stones N. of corner.
	I reset stone and further perpetuate corner as follows:
	A pine 6 ins. diam., bears S. 32°E., 103 lks. dist., marked T 10 S R 2 E S 30, B. T.
	A pine 7 ins. diam., bears N. 76°30'W., 82 lks. dist., marked T 10 S R 1 E S 24, B. T.
	Note:- A few scattering trees near corner.
	Thence I run
	North 0°14'W. on a true line between secs. 19 and 24.
	Descending N. W. slope through heavy oak brush.
23.30	Top of ridge, slopes N. 20°W.
	Continue descent on N. E. slope.
25.80	Side hill drain, course N. 60°E.
40.20	Side hill, drain, course N. E.
41.41	Set a limestone 20x10x7 ins., 15 ins. in the ground for 1/4 sec. corner, marked 1/4 on W. face, and raise a mound of stone 3 1/2 ft base, 1 1/2 ft. high, W. of corner.
	Note:- I set 1/4 sec. corner at this point as notes from General Land Office on topography near of corner of sections 18 and 19 indicate it to be corner of 13 and 24 also. I find a mound of stone 8.52 chs. N. of corner of secs. 18 and 19, but nothing to insure it being the corner for all four sections.
53.80	Base of mountains, bears N. E. and S. W., thence gradual descent over bench land.
66.30	Begin steep descent, bears N. E. and S. W.
67.80	End of wire fence bears N.
73.60	Santaquin Creek 20 lks. wide, course N. 70°W. General course N. W. 1600 ft. below corner of secs. 25, 30, 19 and 24, thence over creek bottom.
75.10	Wire fence, bears S. and N. 70°W.
75.25	Canyon road, bears S. E. and N. 70°W.
	Leave brush E. and W.
75.55	Set Iron U. S. Forest Reserve Boundary Post No. 66, with brass cap, 4 ft. long, 4 ins. diam, 3 ft. in the ground, for road mark, marked on cap 1905 on top of cap.
	No. 66 on S. and
	RESERVE on E. side of top.
82.76	Set Iron U. S. Forest Reserve Boundary Post No. 65, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground and mound of stone for witness corner to closing corner of secs. 18 and 19, marked on cap
	T 10 S S 18 on N. E.
	W. C. C. C. on E.
	R 2 E S 19 on S. E.
	1905 on top.
	No. 65 on S.
	RESERVE on S. E. quadrant, with 3 notches on N. and S. edges of rim.
82.82	Closing corner of Secs. 18 and 19, heretofore described.
	Land, mountainous.
	Soil, 4th rate, formation, limestone.
	No timber, oak brush, aspen and willow along creek.

PAYSON FOREST RESERVE BOUNDARY.

W. Bdy. T 10 S R 2 E.

- Chains. From corner of secs. 19, 24, 25 and 30, I run South on a random line, between secs. 25 and 30.
- 40.22 Intersect E. and W. line, 75 lks. E. of 1/4 sec. Cor. which is a limestone 20x14x6 ins. above ground, marked as described by General Land Office, but find no trace of mound of stone reported in old notes. To further perpetuate corner, I raise a mound of stone 3 1/2 ft. base, 1 1/2 ft. high, W. of corner. Thence I run North 1°4' E. on a true line, between secs 25 and 30, north half.
- 2.70 Descending through brush. Side hill drain, course W. about 25 ft. below 1/4 sec. corner.
- 32.70 Thence along W. slope, gradually ascending. Begin descent over N. W. slope.
- 40.16 Set Iron U. S. Forest Reserve Boundary Post No. 67, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of Secs. 19, 24, 25 and 30, marked on cap
W. C. T 10 S S 19 on N. E.
R 2 E., S 30 on S. E.
S 25 on S. W.
R 1 E., S 24 on N. W.
1905 on top,
No 67 on S.
RESERVE on E. side of top with 4 notches on N. and 2 notches on S. edges of rim.
- 40.22 Corner of Secs. 19, 24, 25 and 30, heretofore described, about 100 ft. below top of hill. From 1/4 sec. corner between secs. 25 and 30, I run South on random line, between secs. 25 and 30, south half.
- 27.00 At this point stop work for this day, July 20, 1905.
July 20, 1905.

July 21, 1905.

At this point, at 8 a.m. l.m.t., I set off 20°33'N. on the declination arc, and 39°54'N. on the latitude arc and ~~322~~ and determine a true meridian with the solar.

Continue random line south.

- 40.18 Intersect E. and W. line 53 lks. W. of corner of Secs. 25, 30, 31 and 36, which is a limestone, 7x10x10 ins. above ground, marked and witnessed as described by General Land Office. To further perpetuate corner,
An aspen 5 ins. diam., bears N. 7°E., 48 lks. dist., marked T 10 S R 2 E S 30 S. T.
An aspen 7 ins. diam., bears S. 22° E., 40 lks. dist., marked T 10 S R 2 E, S 31 S. T.
An aspen, 7 ins. diam., bears S. 53°W., 50 lks. dist., marked T 10 S., R 1 E., S. 36, W. T.
A maple 5 ins. diam., bears N. 64°15'E., 60 lks. dist., marked T 10 S, R 1 E., S. 25, S. T.
- Thence I run North 0°45'W. on a true line, between secs. 25 and 30. Gradually descending through aspen.
- .06 Set Iron U. S. Forest Reserve Boundary Post, No. 68, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of Secs. 25, 30, 31, and 36, marked on cap
W. C. T 10 S S 30 on N. E.
R 2 E S 31 on S. E.
S 36 on S. W.
R 1 E. S 25 on N. W.
1905 on top.
No 68 on S.
RESERVE on E. side of top with 5 notches and 1 notch on S. edges of rim.

PAYSON FOREST RESERVE BOUNDARY.

W. Bdy. T 10 S., R 2 E.

Chains.

- 1.70 Small drain, course W. ascend.
 11.20 Top of ascent, slopes W. about 100 ft. above drain.
 Descend to
 19.30 Small side hill drain, course S. 70°W., ascending
 over rough broken land.
 24.55 Side hill drain, course S. 70°W.
 27.90 Side hill drain, course S. 70°W.
 38.00 Spur of ridge slopes W. descend to
 40.18 1/4 Sec. corner, heretofore described.
 Land, mountainous.
 Soil, 4th rate.
 Timber, aspen, oak brush.
 Formation, limestone.
-
- 40.00 From the corner of sections 25, 30, 31 and 36, I run
 South on a random line, between secs. 31 and 36.
 Find no trace of 1/4 sec. corner.
 Set temporary corner.
 July 21st, 1905: At this point, floating clouds
 prevents observation for latitude.
 83.20 Intersect 2nd. standard parallel S. 198 lks. W. of
 standard corner of Tps. 10 S. Rgs 1 and 2 E. I find
 corner properly marked, fallen over, and re-locate
 same N. 29°W., 12 lks. dist., from S. W. Bearing
 tree as given by notes furnished by General Land
 Office. The corner is a limestone 24x14x6 ins.,
 set 18 ins. in the ground, and marked S. C. on
 E. face, with 6 grooves on N, E and W faces. Then
 I try for other bearing trees, the bearings and
 lengths given agreeing with stump. Therefore to
 further perpetuate corner
 A pine 8 ins. diam., bears N. 24°30'E., 77
 lks. dist., marked T 10 S R 2 E S 31, S. T.
 A pine 6 ins. diam., bears N. 36°W., 85 lks.
 dist., marked T 10 S R 1 E S 36, S. T.
 Note:- At a point 2.48 chs. N. and 60 lks. W. of
 this corner, I found what seemed to be a corner
 stone plainly marked on one edge with 6 notches, but
 no sign of any other marks. Stone was lying down
 but had seemingly been in a small mound of rock,
 I destroy marks on stone and scatter mound.
 From standard corner of Tps. 10 S. Rgs. 1 and 2 E.
 North 1°21'W., on a true line between secs. 31 and 36.
 Descending through aspen, a few pine near corner.
 .06 Set Iron U. S. Forest Reserve Boundary Post No. 69, with
 brass cap, 4 ft. long, 4 ins. diam., 3 ft. in
 ground and mound of rock, for witness corner to Stand.
 corner of Tps. 10 S. Rgs. 1 and 2 E., marked on cap:
 W. C. S. C. T 10 S on N.
 R 2 E S 31 on U. E.
 R 1 E S 36 on S. E.
 1905 on top.
 No. 69 on S.
 RESERVE on E. and S. sides of top, with 6
 notches on N. E. and W. edges of rim.
 13.45 Foot of descent, bears N. W. and S. E.
 Thence over rolling land, through oak brush.
 21.50 Old drag road, bears N. W. and S. E.
 32.15 Old drag road, bears N. W. and S. E.
 35.00 Begin descent, bears N. W. and S. E.
 Enter heavy aspen.
 41.60 Set a limestone 18x15x15 ins., 12 ins. in the ground for
 1/4 Sec. corner, marked 1/4 on W. face, from which
 An aspen 7 ins. diam. bears N. 43°E., 46 lks.
 dist., marked 1/4 S 31 S. T.
 An aspen 8 ins. diam., bears S. 37°W., 10 lks.
 dist., marked 1/4 S 36 S. T.
 47.00 Foot of descent, bears N. W. and S. E. about 200 ft.
 below top.

PAYSON FOREST RESERVE BOUNDARY.

W. Bdy. T 10 S., R. 2 E.

Chains.	
61.70	Spring about 1.00 ch. W. of line, drains to N. W. Gradually ascend.
67.20	Top small ridge, bears N. W. and S. E. Descend about 75 ft. to
71.55	Small drain, course N. W., ascend about 40 ft. to
73.10	Top of sharp spur, slopes N. W. Descend about 100 ft. to Sec. Cor.
76.00	Drag road, bears N. W. and S. E.
83.20	Corner of Secs. 25, 30, 31 and 36, heretofore described.
	Land, mountainous.
	Soil, 2nd and 4th rates.
	Timber, aspen.
	Formation, limestone.

July 21, 1905.

	2nd. Standard Parallel South R 1 E.
	July 22, 1905.
	At the standard corner Tps. 10 S Rgs. 1 and 2 E., at 9 a.m., I set off 20°20'N. on the declination arc and 59°54'N. on the latitude arc, and determine a true meridian with the solar.
	Thence I run
	West on a random line along S. Bdy. Sec. 36.
40.00	Find no trace of 1/4 sec. corner.
	Set temporary corner.
79.40	Intersect N. and S. line 20 lks. N. of standard cor. of Secs. 35 and 36, which is a limestone 14x10ins. X5 ins. above ground marked and witnessed as described by General Land Office.
	Thence I run
	N. 69°51'E. on a true line along S. boundary, Sec. 36.
	Along top of N. slope through oak brush from corner at N. side of small basin or dry lake.
2.00	Begin descent, bears N. 80° W. and S. 80° E. (Error in text)
6.50	Drain, course N. W. (Drag trail follows same) about 125 ft. below corner ascend.
12.50	Point of spur slopes S. about 100 ft. above drain, descend.
18.50	Same drain, course S. W., ascend.
20.75	Same drag road, bears N. E. and S. W.
35.00	Top of spur, slopes N. W. about 250 ft. above drain thence along broken N. W. slope ascending.
38.00	Enter aspen, bears N. and S.
39.50	Small drain, course N.
39.70	Set a limestone 24x16x6 ins., 20 ins. in the ground, for standard 1/4 sec. corner marked S. C. 1/4 on N. face, from which
	An aspen 5 ins. diam, bears N. 24° E., 7 lks. dist., marked S. C. 1/4 S 36 B. T.
	An aspen 6 ins. diam., bears N. 69°30' W., 20 lks. dist., marked S. C. 1/4 S 36 B. T.
45.70	Small drain, course N. 20° W.
48.00	Old drag road, bears N. 60° W. and S. 60° E.
53.50	Drain, course N. W.
64.70	Drain, course N. 60° W.
67.00	Small ridge, slopes N. 60° W.
69.75	Drain, course N. 60° W., ascend 250 ft. to corner.
79.40	Standard corner of Tps. 10 S. Rgs. 1 and 2 E., heretofore described.
	This corner is about 600 ft. above standard 1/4 sec. corner.
	Land, mountainous.
	Soil, 3rd rate.
	Timber, aspen, oak brush.
	Formation, limestone.

PAYSON FOREST RESERVE BOUNDARY.

2nd. Standard Parallel South R. 1 E.

Chains. At the standard corner of secs. 35 and 36, I set off 20°19' N. on the declination arc and at 12^h 41^m 1^s M.T. observe the sun on the meridian and obtain a reading of 39°54' N. on the latitude arc, which is within 1' of the proper latitude.

Thence I run West on a random line along S. boundary, Sec. 35.

40.12 I find stone as described, a limestone 14x10x5 ins., lying on top of ground about 50 ft. north, S. W. bearing tree remains standing, N. W. tree has been cut. I reestablish corner as follows:
At a point N. 72°15' E., 25 lks. dist. from S. W. tree I
Set same stone, limestone 14x10x5 ins., 12 ins. in ground for standard 1/4 sec. cor., and take a new bearing tree
A cedar, 12 ins. diam., bears N. 42°15' W. 30 lks. dist., marked S. C. 1/4 S 35, R. T.
My intersection after corner is reestablished is 10 lks. S.

Thence I run South 89°51' E. on a true line along S. Bdy., Sec. 35, east half.

7.10 Ascending through scattering scrub cedar. Leave scattering cedar and enter oak brush, bears N. and S.

13.65 Top of ascent, bears N. and S. about 300 ft. above 1/4 sec. corner. Thence over rough rolling land.

20.60 Small drain, course N. E. ascend about 50 ft. to

25.60 Top of ascent slopes N., and descend about 100 ft. to corner.

40.06 Set Iron U. S. Forest Reserve Boundary Post No. 70, with a brass cap, 4 ft. long, 4 ins. diam., 3 ft. in ground for witness corner to standard corner of Secs. 35 and 36, marked on cap
W. C. T 10 S S 36 on N. E.
S. C. on N.
R 1 E. S 35 on N. W.
1905 on top.
No. 70 and
RESERVE on S/ sides of top with 1 notch on N. and 5 notches on W. edges of rim.

40.12 Cor. T 10 S R 1 E. and 5 notches on W. edges of rim. From the standard 1/4 sec. cor., between Secs. 35 and 36, thence I run
West on a random line, along S. Bdy. Sec. 35, west half.

37.06 Intersect N. and S. line, 80 lks. S. of closing corner of secs. 2 and 3, Tp. 11 S. R 1 E., which is Boundary Post No. 1, as described by Mr. Walker.

Thence I run South 88°46' E. on a true line along S. Bdy. Sec. 35, west half.

Gradually ascending through scattering clump of oak brush.

4.05 Drag road, bears N. 30° W. and S. 30° E.

5.80 Branch, 5 lks. wide, course N. 30° W.

11.00 Foot of mountain, begin steep ascent.

30.50 Point of spur, slopes N. W.

Enter scattering cedar, bears N. and S.

32.30 Small drain, course S. W.

37.06 1/4 sec. corner, heretofore described, about 500 ft. above closing corner.
Land, mountainous.
Soil, 4th rate.
Timber, cedar, oak brush.
Formation, limestone.

July 22nd, 1905.

F. E. Joy,
U. S. Surveyor.

FINAL OATHS OF ~~DEPUTY~~ SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Jno. P. Walker
United States ~~Deputy~~ Surveyor, to assist in running, measuring, and
ng the lines and corners described in the foregoing field notes of the survey of
payson Forest Reserve Boundary
ing the respective capacities in which they acted:
P. S. Darlington Chainman.
J. J. Elliot Chainman.
Lon Tidwell Moundman.
James Painter Axman.
Harry Irons & Flagman.
M. Devalson Allen Flagman.
June Kendall Axman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jno. P. Walker
United States ~~Deputy~~ Surveyor, in surveying all
parts or portions of the Payson Forest Reserve Boundary
of the Salt
Base meridian, State of Utah, which are represented
foregoing field notes as having been surveyed by him and under his direction; and that said survey
en in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
monuments established, according to the instructions furnished by the United States Surveyor
~~XXXX~~ Director, U. S. Geological Survey.

P. S. Darlington Chainman.
J. J. Elliot Chainman.
Lon Tidwell Moundman.
James Painter Axman.
Harry Irons Axman.
M. Devalson Allen Flagman.
June Kendall Axman.

cribed and sworn to before me this 15th
ay of November, 1904.
Jno. P. Walker,
U. S. Surveyor.



Oct. 25, for M. Devalson Allen.
Oct. 25, for James Painter as Axman.

71a

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Jno. P. Walker, ~~Surveyor~~ ^{Order} Director, United States Deputy Surveyor,
solemnly swear that, in pursuance of a contract received from U. S. Geological Survey,
~~United States Surveyor General for~~ United States Surveyor General for Payson Forest Reserve, bearing date
24th day of June, 1904, I have well, faithfully, and truly, in my
~~proper person~~ ^{Director}, and in strict conformity with the instructions furnished by the United States Surveyor General for Geological Survey, the Manual of Surveying Instructions, and the laws of
United States, surveyed all those parts or portions of Payson Forest Reserve

Base and _____ meridian, in the State of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Survey General for _____ **Geological Survey** and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

Subscribed by said Jno. P. Walker, and sworn to before me
this 25th day of November, 1904.

W. C. Andrews,
County Clerk.



APPROVAL

Office of the Director United States Geological Survey.
JUN 12 1906

The foregoing field notes of the survey of **Payson Forest Reserve Boundary**

executed by Jno. P. Walker,
under his contract No. xxxxxx orders, dated June 24th,, 1904, having
critically examined, and the necessary corrections and explanations made, the said field notes, and
surveys they describe, are hereby approved.

Director, ~~United States Geological Survey~~

I certify that the foregoing transcript of the field notes of the above-described surveys in St. of Utah, has been correctly copied from the original notes on file in this office.

Director U. S. Geological Survey

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, U. S. Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____, _____ Forest Reserve Boundary Lines, Utah, as surveyed by him. _____ the respective capacities in which they acted:

_____une Kendall _____, Chainman.
_____ns. A. Christensen _____, Chainman.
_____R. Kendall _____, Moundman.
_____, Moundman.
_____arold Pyper _____, Axman.
_____P. Garrett _____, Axman.
_____R. Hyde _____, Flagman.

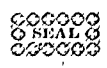
FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, U. S. Surveyor, in surveying all parts or portions of the _____ Forest Reserve Boundary Lines, Utah, as embodied in these field notes as surveyed by him. _____ of the _____ Salt Lake Meridian, State of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey was in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the monuments established, according to the instructions furnished by the United States Surveyor General, Director, U. S. Geological Survey.

_____une Kendall _____, Chainman.
_____ns. A. Christensen _____, Chainman.
_____R. Kendall _____, Moundman.
_____, Moundman.
_____P. Garrett _____, Axman.
_____arold Pyper _____, Axman.
_____R. Hyde _____, Flagman.

Subscribed and sworn to before me this _____ day of _____, 1905

U. S. Surveyor.



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR

I, F. E. Joy, Deputy, United States
 solemnly swear that, in pursuance of orders received from the Director,
United States Surveyor General, U. S. Geological Survey,
24th day of June, 1905 I have well, faithfully, and
 proper person, and in strict conformity with the instructions furnished by the United States
General, Geological Survey, the Manual of Surveying Instructions, and the
 United States, surveyed all those parts or portions of the Payson Forest Reserve
Boundary Lines, Utah, as embodied in these field notes as
 by me
 of the Salt Lake
 meridian, in the State of Utah, which are represented
 foregoing field notes as having been surveyed by me, and under my direction; and I do further
 swear that all the corners of said survey have been established and perpetuated in strict accordance
 the Manual of Surveying Instructions, and the special written instructions of the United States
General, Geological Survey and in the specific manner described in the field notes,
 the foregoing are the original field notes of such survey.

Subscribed by said F. E. Joy, and sworn to before me }
 this 31st day of July, 1905

Jacob Coleman



Clerk, Fifth Dist. Co.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL, XXXXXX
 OFFICE OF THE DIRECTOR, U. S. GEOLOGICAL SURVEY.

JUN 12 1906

The foregoing field notes of the survey of Payson Forest Reserve Boundary
Lines, Utah

executed by F. E. Joy
 under his COMMISSIONER'S OFFICE, dated June 24, 1905, have
 critically examined, and the necessary corrections and explanations made, the said field notes
 surveys they describe, are hereby approved.

Chas. W. Allen
 Director, United States Geological Survey

I certify that the foregoing transcript of the field notes of the above-described surveys in
of Utah, has been correctly copied from the original notes on file in this

Chas. W. Allen
 Director, U. S. Geological Survey

BOOK 329

FIELD NOTES

OF THE SURVEY OF THE

Logan Forest Reserve Boundary,

Utah.

Of the Salt Lake Base and Meridian,

State of Utah.

AS SURVEYED BY

E. H. Joy, United States Deputy Surveyor,

under his Contract No. orders, dated June 16, 1904.

by commenced July 23, 1904.

by completed November 3, 1904.

D. D. Toncray	Chairman
Geo. M. Anderson	"
L. B. Cole	"
Peter Anderson	"
James I. Linville	Moundman
L. B. Cole	Arman
P. A. Taylor	Flagman

6-151

Volume # R0329

INDEX DIAGRAM.

Township, Range

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, D. D. Toncray, Geo. M. Anderson, Peter Anderson and L. B. Cole do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will stretch the chain upon even and uneven ground; and plumb the tally pins; either by sticking or dropping the chain; and we will report the true distances to all notable objects, and the true lengths of all lines that we measure, to the best of our skill and ability, and in accordance with instructions given us, in the

Logan Forest Reserve Boundary,

D. D. Toncray
Geo. M. Anderson
Peter Anderson
L. B. Cole

Subscribed and sworn to before me this 28 day of July, 1904.
L. B. Cole & Peter Anderson, Nov. 3rd.

F. E. Joy,

U. S. Surveyor

I, James I. Linville, do solemnly swear that I will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given me to the best of my skill and ability, in the

Logan Forest Reserve Boundary,

James I. Linville

Subscribed and sworn to before me this 28 day of July, 1904.

F. E. Joy,

U. S. Surveyor

I, L. B. Cole, do solemnly swear that I will well and truly perform the duties of axmen in the establishment of corners, according to instructions given me to the best of my skill and ability, in the

Logan Forest Reserve Boundary,

L. B. Cole

Subscribed and sworn to before me this 28 day of July, 1904.

F. E. Joy,

U. S. Surveyor

I, P. A. Taylor, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

Logan Forest Reserve Boundary,

P. A. Taylor

Subscribed and sworn to before me this 28 day of July, 1904.

F. E. Joy

U. S. Surveyor



LOGAN FOREST RESERVE BOUNDARY.

E. Bdy. T. 12 N., R. 1 E.

Chains. Survey commenced July 28, 1904, and executed with a Young & Son's light mountain transit, No. 6836, with Smith solar attachment. The horizontal limb is provided with two opposite verniers reading to single minutes of arc, which is also the least count of the latitude and declination arcs. I begin at a corner supposed to be the corner of secs. 25, 30, 31 and 36, T. 12 N., Rs. 1 and 2 E. In order to test the solar apparatus by comparing the results of observation on the sun made during a.m. and p.m. hours, with a true meridian determined by observations on Polaris, I proceed as follows:

At 11^h03^m by my watch, which agrees with local mean time, I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark the line thus determined by cutting a mark on a wooden peg set firmly in the ground 5.00 chs. N. of my station.

July 28, 1904.

July 29: At 8 a.m. I turn the azimuth of Polaris 1°36' to the west and mark the line thus established by setting a plug in the ground and driving a tack on line in plug.

At 9 a.m. I set off 18°46' N. on the declination arc and determine a true meridian with the solar, which I find agrees with the true meridian established last night.

Note: After having run from the corner I above mentioned I find that it is a corner set by local surveyors, therefore I go to the corner of secs. 24, 19, 25 and 30, T. 11 N., Rs. 1 and 2 E., and retrace the line.

From the corner of secs. 19, 24, 25 and 30, T. 11 N., Rs. 1 and 2 E., which is a limestone 6x10x12 ins. above ground, marked and witnessed as described by the General Land Office, I run North 0°15' W.

July 29, 1904.

August 30: At 10 a.m. I set off 9° N. on the declination arc and 41°39' N. on the latitude arc, and determine a true meridian with the solar.

Thence I run N. 0°15' W. on a random line, between secs. 19 and 24.

40.00 1/2 sec. corner between secs. 19 and 24 is not found after diligent search.

80.00 Find no trace of corner of secs. 15, 18, 19 and 24.

120.00 Find no trace of 1/2 sec. corner between secs. 15 and 18.

160.00 Find no trace of corner of secs. 7, 12, 13 and 18.

200.00 Find no trace of 1/2 sec. corner between secs. 7 and 12.

240.00 Find no trace of corner of secs. 1, 6, 7 and 12.

280.00 Find no trace of 1/2 sec. corner between secs. 1 and 6.

320.00 Find no trace of corner of Tps. 11 and 12 N., Rs. 1 and 2 E., after diligent search, therefore I continue N. 0°15' W. on random line along east boundary of T. 12 N., R. 1 E., between secs. 31 and 36.

360.00 Find no trace of 1/2 sec. corner between secs. 31 and 36.

400.00 Find no trace of corner of secs. 25, 30, 31 and 36.

440.00 Find no trace of 1/2 sec. corner between secs. 25 and 30.

LOGAN FOREST RESERVE BOUNDARY.

E. Bdy. T. 12 N., R. 1 E.

Chains.

- 480.00 Find no trace of corner of secs. 19, 24, 25 and 30.
 520.00 Find no trace of $\frac{1}{2}$ sec. corner between secs. 19 and 24.
 560.00 Find no trace of corner of secs. 13, 18, 19 and 24.
 600.00 Find no trace of $\frac{1}{2}$ sec. corner between secs. 13 and 18.
 655.40 Find the stone to the corner of secs. 7, 12, 13 and 18 laying on top of the ground, but can not determine the exact location for it, therefore I continue N. $0^{\circ}15'$ W. on random.
 680.00 Find no trace of $\frac{1}{2}$ sec. corner between secs. 7 and 12.
 735.40 Intersect E. and W. line 3 lks. W. of corner of secs. 1, 6, 7 and 12, which is a stone 6x8x10 ins. above ground, marked and witnessed as described by the General Land Office. The length corresponds to a correction of 1.71 chs. per mile. Latitude $41^{\circ}46'44''$ N; longitude $111^{\circ}47'07''$ W. Magnetic declination $18^{\circ}10'$ E.

August 30, 1904.

September 2: At 8 a.m. I set off $7^{\circ}57'$ N. on the declination arc and $41^{\circ}48'$ N. on the latitude arc and determine a true meridian with the solar at the corner of secs. 1, 6, 7 and 12, T. 12 N., Rs. 1 and 2 E., heretofore described.

Thence I run

South $0^{\circ}15'$ E. on a true line, between secs. 7 and 12, over heavy rolling land in prairie.

- 40.85 $\frac{1}{2}$ Set a flint stone 24x20x6 ins., 18 ins. in the ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of corner. Pits impracticable.

- 81.71 Set a limestone 20x12x4 ins., 15 ins. in the ground, for corner of secs. 7, 12, 13 and 18, marked with 2 notches on N. and 4 notches on S. edges; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of corner. Pits impracticable.

Land, heavy rolling.

Soil, 2nd and 4th rate.

No timber.

Formation, gravelly.

S. $0^{\circ}15'$ E. on a true line, between secs. 13 and 18, over rolling prairie.

- 5.20 Head of drain, course W.
 25.00 Begin descent, bears E. and W.
 29.00 Drain, course W., foot of 40-foot descent. Ascend.
 35.00 Top of ridge, bears E. and W., 50 ft. above drain.

Descend 50 ft. to

- 40.85 $\frac{1}{2}$ Set flint stone 20x12x10 ins., 15 ins. in the ground, for $\frac{1}{2}$ sec. corner marked $\frac{1}{2}$ on W. face; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of corner; thence gradually ascend on broken west slope 100 ft. to

- 81.71 Set boundary post No. 1, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for corner of secs. 13, 18, 19 and 24, marked on cap

T 12 N S 18 on N. E. quadrant

R 2 E S 19 on S. E. quadrant

S 24 on S. W. quadrant

S 13 on N. W. quadrant, and

RESERVE on S. E. quadrant, and No. 1 on south side of top, with 3 notches on N. and S. edges of rim, from which

E. Bdy. T. 12 N., R. 1 W.

Chains.	<p>A cedar, 4 ins. diam., bears S. 65°40' E., 233 lks. dist., marked T 12 N. R 2 E S 19 B T</p> <p>A cedar, 4 ins. diam., bears S. 19°30' W., 164 lks. dist., marked T 12 N. R 1 E S 24 B T</p> <p>A cedar, 6 ins. diam., bears N. 9°50' W., 376 lks. dist., marked T 12 N. R 1 E S 15 B T</p> <p>No other trees within limits; dig pits 18x18x12 ins., 5½ ft. dist., in sec. 18.</p> <p>Note: A few scattering cedars around corner.</p> <p>Land, rough and broken.</p> <p>Soil, gravelly, 4th rate.</p> <p>No timber; sage brush 80.00 chs.</p>
6.50	<p>S. 0°15' E. between secs. 19 and 24; ascending gradually along W. slope.</p> <p>Top of spur, 50 ft. above sec. corner, bears N. E. and S. W.; descend.</p>
21.00	Foot of 200-foot descent; thence over level land in Green Canyon.
23.50	Drain, course S. 60° W.
26.09	<p>Set boundary post No. 2, which is an iron post with brass cap, 4 ft. long, 4 ins. diam., 2 ft. in the ground, marked on cap</p> <p>No. 2 on S. and</p> <p>RESERVE on E. half of cap; raise a mound of stone, 2 ft. base, 1½ ft. high, around post. Begin ascent.</p>
40.85½	Set a limestone 24x12x6 ins., 16 ins. in the ground, for ½ sec. corner, marked ½ on W. face; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of corner.
41.50	Top of ridge, bears N. and W., 150 ft. above canyon; descend 100 ft. to
45.50	Drain, course W.; ascend 100 ft. to
49.00	Top of spur slopes W., 100 ft. above drain.
	Descend 75 ft. to
50.50	Drain, course W. Ascend 350 ft. to
74.50	Top of spur slopes W. Descend.
81.71	<p>Set Boundary post No. 3, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in mound of stone, for corner of secs. 19, 24, 25 and 30, marked on cap</p> <p>T 12 N. S 19 on N. E.</p> <p>R 2 E, S. 30 on S. E.</p> <p>S 25 on S. W.</p> <p>R 1 E S 24 on N. W.</p> <p>No. 3 on S., and</p> <p>RESERVE on S. sides of top, with 4 notches on N. and 2 notches on S. edges of cap, from which</p> <p>A cedar, 12 ins. diam., bears N. 63°20' E., 24 lks. dist., marked T 12 N. R 2 E S 19 B T</p> <p>A cedar, 12 ins. diam., bears S. 60°30' E., 46 lks. dist., marked T 12 N. R 2 E S 30 B T</p> <p>A cedar, 16 ins. diam., bears S. 52°10' W., 53 lks. dist., marked T 12 N. R 1 E S 25 B T</p> <p>A cedar, 4 ins. diam., bears N. 33°40' W., 58 lks. dist., marked T 12 N. R 1 E S 24 B T</p> <p>Note: Scattering scrub cedar near corner.</p> <p>Land, mountainous.</p> <p>Soil, stony, 4th rate.</p> <p>Timber, scrub cedar.</p> <p>Formation, limestone.</p>

I set off 7°53' N. on the declination arc and at 12^h02^m by my watch observe the sun on the meridian and obtain a reading of 41°45' on the latitude

LOGAN FOREST RESERVE BOUNDARY.

E. Bdy. T. 12 N., R. 1 E.

Chains.	arc.
	Thence I run
	S. 0°15' E. between secs. 25 and 30; descending through scattering cedar.
3.60	Drain, course W., 150 ft. below top of ridge; ascend 200 ft. to
7.80	Top of ridge, bears E. and W. Descend 100 ft. to
15.90	Drain, course W.; ascend 250 ft. to
26.80	Top of ridge, bears E. and W. descend.
39.30	Drain, course W., 100 ft. below ridge; ascend.
40.85½	Set limestone 20x12x10 ins., 15 ins. in the ground, for ¼ sec. corner, marked ½ on W. face; raise a mound of stone, 2 ft. base, 1½ ft. high, west of corner; pits impracticable.
47.80	Top of ridge, slopes W., 150 ft. above drain; thence along W. slope to
52.80	Begin descent, bears E. E. and S. W.
68.30	Head of drain, course S. W.
71.50	Prospect hole, bears E., about 130 chs. dist.
81.71	Set Boundary Post No. 4, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in mound of stone, for corner of secs. 25, 30, 31 and 36, marked on cap T 12 N S 30 on N. E. R. 2 E. S 31 on S. E. S 36 on S. W. R 1 E S 25 on N. W. No. 4 on S., and RESERVE on E. sides of top, from which A cedar, 8 ins. diam., bears N. 65° E., 109 lks. dist., marked T 12 N R 2 E S 30 B T A cedar, 14 ins. diam., bears S. 30°45' E., 58 lks. dist., marked T 12 N R 2 E S 31 B T A cedar, 5 ins. diam., bears S. 23°30' W., 58 lks. dist., marked T 12 N R 1 E S 36 B T A cedar, 6 ins. diam., bears N. 28°50' W., 72 lks. dist., marked T 12 N R 1 E S 25 B T This corner stands 1.30 chs. west of a stone corner set by local surveyors for northeast corner of sec. 36, about 1000 ft. below top of ridge. Land, mountainous. Soil, 4th rate. Timber, scrub cedar. Formation, limestone.

September 2, 1904.

	September 3: S. 0°15' E. between secs. 31 and 36, descending through scrub cedar. At 9 a.m. I set off 7°34' N. on the declination arc and 41°44' on the latitude arc and determine a true meridian with the solar.
6.70	Bluff about 50 ft. high, bears N. W. and S. E.
7.30	Hercules Power Co. ditch, bears N. W. and S. E., soon W.
7.90	Irrigating ditch, bears N. 60° W. and S. 60° E.
10.80	Logan River, 1 ch. wide, course E. W., general course W., 300 ft. below corner.
12.90	Road bears N. 60° W. and S. 60° E., between Cache Valley and Bear Lake.
13.21	Set Boundary Post No. 5, an iron post, with brass cap 4 ft. long, 4 ins. diam., 3 ft. in the ground, marked on cap No. 5 on S. and RESERVE on E. sides of top. Begin ascent.
25.00	Ascend over rock bluffs, bearing E. and W.
40.85½	True point for ¼ corner falls among rocky bluffs, therefore at

LOGAN FORKED RESERVE BOUNDARY.

E. Day. T. 12 N.; R. 1 E.

Chains.
53.65

Set a limestone $24 \times 12 \times 6$ ins., 18 ins. in the ground for witness corner to $\frac{1}{2}$ sec. corner, marked W C $\frac{1}{2}$ on W. face, from which

A fir, 14 ins. diam., bears N. $78^{\circ}40'$ E., 125 lks. dist., marked W C $\frac{1}{2}$ S 31 B T

A fir, 12 ins. diam., bears N. $41^{\circ}30'$ W., 114 lks. dist., marked W C $\frac{1}{2}$ S 36 B T

Top of ascent, bears E. and W., about 1400 ft.

above Logan River. Begin descent south slope.

78.50

Foot of descent, bears E. and W., 700 ft. below top.

79.50

Dry drain, course W.; this canyon is called Dry Canyon.

81.71

Set Boundary Post No. 6, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., $\frac{3}{8}$ ft. in round of stone, for corner of Tps. 11 and 12 N., Rs. 1 and 2 E., marked on cap

T 12 N S 31 on N. E.

R 2 E S 6 on S. E.

T 11 N S 1 on S. W.

R 1 E S 36 on N. W.

No. 6 on S., and

RESERVE on E. sides of top, and 6 notches on each edge rim, from which

A fir, 4 ins. diam., bears S. $70^{\circ}45'$ E., 73

lks. dist., marked T 11 N R 2 E S 6 B T

A cedar, 4 ins. diam., bears N. $28^{\circ}20'$ W., 413

lks. dist., marked T 12 N R 1 E S 36 B T

A limestone rock $10 \times 5 \times 5$ ft. above ground, marked with cross (+), bears N. $42^{\circ}08'$ E., 40 lks. dist.

No other trees within limits.

Land, mountainous.

Soil, 4th rate, rocky.

Timber, scrub cedar, spruce and fir, scattering.

Formation, limestone.

E. Day. T. 11 N., R. 1 E.

At the corner of Tps. 11 and 12 N., Rs. 1 and 2 E., T set off $7^{\circ}31'$ E. on the declination arc and at 12h02m observe the sun on the meridian and obtain a reading of $41^{\circ}45'$ on the latitude arc.

Thence I run

S. $0^{\circ}15'$ E. between secs. 1 and 6, ascending from Dry Canyon, through scattering timber.

20.30

Dry drain, course N. 10° E.

27.50

Limestone ledge, 10 ft. high, bears E. and W.; enter heavy timber, bears E. and W.

35.50

Dry drain, course N. 10° W.

40.85

Set a limestone $20 \times 12 \times 6$ ins., 18 ins. in the ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face, from which

A fir 10 ins. diam., bears N. $87^{\circ}50'$ E., 156 lks. dist., marked $\frac{1}{2}$ S 6 B T

A fir 6 ins. diam., bears N. $37^{\circ}50'$ W., 94 lks. dist., marked $\frac{1}{2}$ S 1 B T

41.00

Leave timber, bears E. and W.; continue through scattering, also top of ridge, 1300 ft. above Dry Canyon, bears E. and W. Descend.

56.00

Dry drain, course W., 250 ft. below top of ridge. Ascend.

63.80

Top of ridge, bears E. and W., 200 ft. above drain, descend.

73.60

Drain, course N. W., 300 ft. below top of ridge; ascend.

78.80

Top of low ridge, bears N. 75° W. and S. 75° E. Descend.

LOGAN FOREST RESERVE BOUNDARY.

R. Rwy. T. 11 N., R. 1 E.

Chains
81.71

Set Boundary Post No. 7, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., $3\frac{1}{2}$ ft. in mound of stone, for corner of secs. 1, 6, 7 and 12, marked on cap
 T 11 N S 6 on N. E.
 R 2 E S 7 on S. E.
 S 12 on S. W.
 R 1 E S 1 on N. W.
 No. 7 on S., and
 RESERVE on E. sides of top, and 1 notch in N. and 5 notches in S. edge of rim, from which
 A mahogany, 5 ins. diam., bears N. $15^{\circ}40'$ E., 73 lks. dist., marked T 11 N R 2 E S 6 B T
 A mahogany, 5 ins. diam., bears S. 74° E., 165 lks. dist., marked T 11 N R 2 E S 7 B T
 A mahogany, 10 ins. diam., bears S. $5^{\circ}45'$ W., 46 lks. dist., marked T 11 N R 1 E S 12 B T
 A mahogany, 6 ins. diam., bears N. $27^{\circ}45'$ W., 52 lks. dist., marked T 11 N R 1 E S 1 B T
 Land, mountainous.
 Soil, 4th rate, stony.
 Timber, spruce, fir, scrub cedar and mahogany.
 Formation, limestone.

September 3, 1904

September 4: At the corner of secs. 1, 6, 7 and 12 at 8 a.m., I set off $7^{\circ}14'$ N. on the declination arc and $41^{\circ}42'$ on the latitude arc and determine a true meridian with the solar.

Thence I run

S. $0^{\circ}15'$ E., between secs. 7 and 12, descending through scattering timber.

- 6.50 Drain, course W., 100 ft. below top of ridge; ascend.
 15.00 Top of ridge, bears E. and W., 200 ft. above ridge, descend S. W. slope.
 30.00 Limestone ledge, bears E. and W., 40 ft. high.
 36.30 Drain, course W., 450 ft. below top of ridge; ascend.
 36.40 Drag road, bears E. and W.
 40.85 $\frac{1}{2}$ Set a limestone $22 \times 12 \times 6$ ins., 17 ins. in the ground, for sec. corner, marked $\frac{1}{2}$ on W. face; from which
 A fir, 6 ins. diam., bears S. $80^{\circ}40'$ E., 172 lks. dist., marked $\frac{1}{2}$ S 7 B T
 A fir, 4 ins. diam., bears N. $3^{\circ}10'$ W., 76 lks. dist., marked $\frac{1}{2}$ S 12 B T
 Note: Floating clouds prevent noon observation for latitude.
 47.50 Top of ridge, bears N. 70° W. and S. 70° E., 450 ft. above drain. Descend to
 55.20 Drain, course S. 65° W., 200 ft. below top of ridge; ascend N. W. slope.
 66.00 Ridge, 250 ft. above drain, bears E. and W.; descend S. W. slope.
 81.30 Drain, course S. 65° W., 150 ft. below top of ridge, ascend N. slope.
 81.71 Set Boundary Post No. 8, which is an iron post with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for corner of secs. 7, 12, 13 and 18, marked on cap
 T 11 N S 7 on N. E.
 R 2 E S 18 on S. E.
 S 13 on S. W.

LOGAN FOREST ALTERNATE BOUNDARY.

N. Bdy. T. 11 N., R. 1 E.

Chains	<p>R 1 E S 12 on N. 7. No. 8 on S., and RESERVE on E. sides of top, with 2 notches on N. and 4 notches on S. edges of rim, from which; A mahogany, 12 ins. diam., bears N. 60°10' E., 189 lks. dist., marked T 11 N R 2 E S 7 B T A mahogany, 8 ins. diam., bears S. 65°10' E., 156 lks. dist., marked T 11 N R 2 E S 18 B T A fir, 10 ins. diam., bears S. 28°25' W., 54 lks. dist., marked T 11 N R 1 E S 15 B T A mahogany, 6 ins. diam., bears N. 56°25' W., 45 lks. dist., marked T 11 N R 1 E S 12 B T Land, mountainous. Soil, 4th rate. Timber, spruce, mahogany and cedar. Formation, limestone.</p>
	September 4, 1904.
	<p>September 5: At 8.30 a.m. I set off 6°50' N. on the declination arc and 41°41' on the latitude arc and determine a true meridian with the solar, at the corner of secs. 7, 12, 13 and 18. Thence I run S. 0°15' E., between secs. 13 and 18, ascending N. slope, through scattering timber. 4.50 Top of ridge, bears N. and W., 150 ft. above drain. Descend S. W. slope over rough broken ledges. 57.00 Leave ledges, bears N. and W., continue descent, south slope. 40.65½ Set a limestone 24x12x6 ins., 16 ins. in ground, for E. sec. corner, marked E on W. face, from which; A cedar, 12 ins. diam., bears N. 79°30' E., 130 lks. dist., marked E S 13 B T A cedar, 7 ins. diam., bears S. 26°40' W., 60 lks. dist., marked E S 13 B T 56.62 Set Boundary Post No. 9, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, marked on cap No. 9 on south end RESERVE on east side of top. 57.00 Providence Canyon road to limestone quarry, bears E. and W. 56.40 Providence Creek, 12 lks. wide, course W., 1250 ft. below top of ridge; ascend N. slope. 61.71 Set a limestone 20x12x8 ins., 16 ins. in the ground, for corner of secs. 13, 16, 19 and 24, marked with 3 notches on N. and S. edges, from which; A fir, 7 ins. diam., bears N. 43° E., 129 lks. dist., marked T 11 N R 2 E S 13 B T A spruce, 10 ins. diam., bears S. 49°05' E., 82 lks. dist., marked T 11 N R 2 E S 19 B T A spruce, 8 ins. diam., bears S. 43°15' W., 48 lks. dist., marked T 11 N R 1 E S 24 B T A fir, 8 ins. diam., bears N. 80°50' W., 51 lks. dist., marked T 11 N R 1 E S 13 B T Land, mountainous. Soil, 4th rate. Timber, spruce and fir, scattering cedar and mahog- any.</p>

At the corner of secs. 13, 16, 19 and 24 I set off
6°47' N. on the declination arc and at 12^h 1-m.t.
observe the sun on the meridian and obtain a

LOGAN FOREST RESERVE BOUNDARY.

N. Bay. T. 11 N., R. 1 E.

- Chains. reading of $41^{\circ}40'$ on the latitude arc.
Thence I run
S. $0^{\circ}15'$ E. on a true line between secs. 19 and 24,
ascending through scattering timber.
2.70 Top of ridge, bears N. 70° W. and S. 70° E., 900
ft. above creek. Descend S. W. slope.
12.20 Dry drain, course N. W.
15.00 Dry road parallel with drain, 50 ft. below top of
ridge. Ascend.
17.00 Make diligent search for closing corner of secs.
18 and 19, but fail to find any traces of same.
40.85 $\frac{1}{2}$ Set a limestone $20 \times 8 \times 6$ ins., 15 ins. in the ground,
for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face, from
which;
A spruce, 15 ins. diam., bears S. $70^{\circ}40'$ E.,
56 lks. dist., marked $\frac{1}{2}$ S 19 B T
A fir, 8 ins. diam., bears E. 45° W., 48 lks.
dist., marked $\frac{1}{2}$ S 24 B T
56.20 Top of ridge 1100 ft. above drain, bears N. W. and
S. E.; descend and leave timber, bears N. W. and
S. E.
64.60 Head of drain, course W., 50 ft. below top of ridge;
ascend N. W. slope.
68.70 Top of ridge, 50 ft. above drain, bears N. E. and
S. W. Descend S. E. slope.
81.71 The corner of secs. 19, 24, 25 and 30, which is a
limestone $6 \times 10 \times 12$ ins. above ground, marked and
witnessed as described by the General Land Of-
fice.
Land, mountainous.
Soil, 4th rate.
Timber, spruce, fir and mahogany.
Formation, limestone.

September 5, 1904.

Note: After thorough search I fail to find closing
corner of secs. 18 and 19, T. 11 N., R. 2 E.,
therefore I go to the corner of secs. 17, 18, 19
and 20, for a new starting point.

SUBDIVISION OF T. 11 N., R. 2 E.

August 20: At 8.30 a.m., I set off $12^{\circ}29'$ N. on the
inclination arc and $41^{\circ}40'$ on the latitude arc
and determine a true meridian with the solar at the
corner of secs. 17, 18, 19 and 20, T. 11 N., R. 2 E.,
which is a limestone $2 \times 4 \times 10$ ins., above ground,
marked and witnessed as described by the General
Land Office. In order to further improve corner
I mark

an aspen, 8 ins. diam., bears N. $59^{\circ}15'$ W., 118
lks. dist., T. 11 N. R. 2 E. S 18 B T

Thence I run

West between secs. 18 and 19, through dense under-
growth, along N. slope.

5.50 Slope changes to W., descend 100 ft. to

13.50 Drain, course E. W. Ascend.

20.50 Top of ascent slopes N. W., 100 ft. above drain.
Descend.

33.00 Head of drain, course N. 30° E., 250 ft. below top.
Ascend.

40.00 Set a limestone $16 \times 14 \times 6$ ins., 14 ins. in the ground,
for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on N. face, from which

A spruce, 12 ins. diam., bears N. 25° E., 52
lks. dist., marked $\frac{1}{2}$ S B T

A pine, 12 ins. diam., bears S. $62^{\circ}50'$ E., 61
lks. dist., marked $\frac{1}{2}$ S B T

Note: I find no trace of old $\frac{1}{2}$ section corner.

LOGAN FOREST RESERVE BOUNDARY.

T. 11 N., R. 2 E.

Chains.	
43.50	Top of ridge, bears N. 80° W. and S. 80° E., 200 ft. above drain; descend S. W. slope, 500 ft. to enter prairie, bears E. W. and S. E.
68.30	Drain and drag road, course N. W.; thence ascend 75 ft.; leave prairie, bears E. W. and S. E.
75.64	Intersect west boundary of township 20.72 chs. south of corner of secs. 15 and 24, T. 11 N., R. 1 E., heretofore described, at which point I set Boundary Post No. 10, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for closing corner of secs. 18 and 19, marked T 11 N S 18 on N. E. R 2 E S 19 on S. E. C.C. on east No. 10 on S., and RESERVE on east sides of top and 3 notches on N. and S. edges of rim, from which A maple, 6 ins. diam., bears N. 75° E., 44 lks. dist., marked T 11 N R 2 E S 18 B T A spruce, 12 ins. diam., bears S. 68°30' E., 62 lks. dist., marked T 11 N R 2 E S 19 B T Land, mountainous. Soil, 4th rate, gravel. Timber, spruce, aspen and some maple. Undergrowth, aspen, willow and bear brush.
	I set off 12°25' N. on the declination arc, and at 12h02 ^m l.m.t., observe the sun on the meridian and obtain a reading of 41°40' on the latitude arc at the corner of secs. 17, 18, 19 and 20.
	Thence I run S. 0°04' E. on a random line between secs. 19 and 20.
40.00	No trace of $\frac{1}{2}$ sec. corner found; set temporary $\frac{1}{2}$ sec. corner.
79.60	Intersect E. and W. line 123 lks. west of corner of secs. 19, 20, 29 and 30, which is a sandstone 5x6x8 ins., above ground, marked and witnessed as described by the General Land Office.
	Thence I run N. 0°57' W. on a true line between secs. 19 and 20; ascending S. W. slope through dense undergrowth.
13.50	Head of drain, course S. W.
20.00	Head of drain, course S. W.; leave dense undergrowth, bears E. and W.; thence in prairie.
35.50	Top of ridge, slopes W., 375 ft. above corner; descend through aspen thicket, bears E. and W.
39.60	Set limestone 17x12x8 ins., 12 ins. in the ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face, from which A spruce, 10 ins. diam., bears N. 46° E., 125 lks. dist., marked $\frac{1}{2}$ S 20 B T No other trees of suitable size within limits; raise a mound of stone, 2 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, west of corner.
49.50	Drain, course W., 100 ft. below top of ridge; ascend.
50.00	Leave aspen thicket, bears E. and W.
62.50	Top of ridge, bears N. 70° W. and S. 70° E., 150 ft. above drain; descend 800 ft. through thicket to
79.54	Set Boundary Post No. 11, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to secs. 17, 18, 19 and 20, marked on cap

LOGAN FOREST RESERVE BOUNDARY.

T. 11 N., R. 2 E.

Chains.	T 11 N S 17 W C on N. E. R 2 E S 20 on S. E. S 19 on S. W. S 18 on N. W. No. 11 on S. and RESERVE on N. and E. sides of top, with 5 notches on E. and 3 notches on S. edges of rim.
79.60	Corner of secs. 17, 18, 19 and 20, heretofore described. Land, mountainous. Soil, 4th rate. Timber, scattering spruce and aspen. Undergrowth, aspen and willow. Formation, limestone.
	August 20, 1904.
	August 24: At 10 a.m., I set off 11°06' N. on the declination arc and 41°40' on the latitude arc and determine a true meridian with the solar at the corner of secs. 19, 20, 29 and 30.
	Thence I run N. 89°54' E. on a random line between secs. 20 and 29.
40.08	Intersect N. and S. line 42 lks. N. of $\frac{1}{2}$ sec. cor- ner, which is a sandstone 3x6x8 ins. above ground, marked and witnessed as described by the General Land Office.
	Thence I run N. 89°30' W. on a true line between secs. 20 and 29, west half. Descending S. W. slope through aspen thicket.
2.00	Leave thicket, bears N. and S., enter prairie.
8.00	Leave prairie, enter thicket, bears N. W. and S. E.
22.00	Head of drain, course S. W.
31.60	Head of drain, course S. E.
40.08	Set Boundary Post No. 12, which is an iron post with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground and stone mound, for witness cor- ner to corner of secs. 19, 20, 29 and 30, marked on cap, T 11 N S 20 W C on N. E. R 2 E S 29 on S. E. S 30 on S. W. S 19 on N. W. No. 12 on S. and RESERVE on N. E. sides of top, with 2 notches on S. and 5 notches on E. edges of rim.
40.08	Corner of secs. 19, 20, 29 and 30, heretofore described. From the $\frac{1}{2}$ corner between secs. 20 and 29, Thence I run N. 89°54' E. on random line between secs. 20 and 29, east half.
39.92	Intersect N. and S. line 47 lks. S. of corner of secs. 20, 21, 28 and 29, which is a sandstone 3x6x10 ins. above ground, marked and witnessed as described by the General Land Office. In or- der to further preserve corner I take bearing trees as follows: An aspen, 6 ins. diam., bears S. 56° W., 55 lks. dist., marked T 11 N R 2 E S 29 B T An aspen, 8 ins. diam., bears N. 49°30' W., 76 lks. dist., marked T 11 N R 2 E S 20 B T Thence I run S. 89°14' W. on a true line between secs. 20 and 29, east half, ascending through aspen thicket.
26.20	Leave thicket, bears E. W. and S. E., enter prairie.
32.50	Top of ridge, bears E. W. and S. E. about 600 ft.

LOGAN FOREST RESERVE BOUNDARY.

T. 11 N., R. 2 E.

- Chains. above corner of secs. 19, 20, 29 and 30, and about the same above corner of secs. 20, 21, 28 and 29; thence descend.
- 38.50 Enter aspen thicket, bears N. and S.; leave prairie.
- 39.92 $\frac{1}{2}$ sec. corner between secs. 20 and 29, heretofore described.
- Note: On account of floating clouds fail to get observation on sun for latitude.
- Land, mountainous.
- Soil, 3rd and 4th rate.
- Timber, aspen.
- Undergrowth, aspen, larb and sage.
- Formation, gravel and sandstone.
-
- From the corner of secs. 20, 21, 28 and 29 S. $0^{\circ}03'$ E. on a random line between secs. 28 and 29, north half.
- 39.65 Intersect E. and W. line 16 lks. east of $\frac{1}{2}$ sec. corner, which is a limestone $4 \times 8 \times 10$ ins. above ground marked and witnessed as described by the General Land Office.
- Thence I run
- N. $0^{\circ}11'$ E. on a true line between secs. 28 and 29, north half, along broken east slope in prairie.
- 14.00 Leave prairie and enter timber bears E. and N. W., also enter dense undergrowth.
- 22.60 Head of drain, course E.
- 31.00 Perpendicular bluff, 20 ft. high, bears E. 60° W. and S. 60° E.; descend 100 ft. to
- 39.59 Set Boundary Post No. 13, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 20, 21, 28 and 29, marked on cap
- T 11 N S 21 W C on N. E.
- R 2 E S 28 on S. E.
- S 29 on S. W.
- S 20 on N. W.
- No. 13 on S., and
- RESERVE on N. and E. sides of top, with 2 notches on S. and 4 on E. edges of rim.
- 39.65 Corner of secs. 20, 21, 28 and 29, heretofore described.
- August 24, 1904.
- August 25: At 8 a.m. I set off $10^{\circ}48'$ N. on the declination arc and $41^{\circ}39'$ N. on the latitude arc and determine a true meridian with the solar, at the $\frac{1}{2}$ corner between secs. 28 and 29.
- Thence I run
- S. $0^{\circ}03'$ E. on a random line between secs. 28 and 29, south half.
- 40.38 Intersect E. and W. line 7 lks. W. of corner of secs. 28, 29, 32 and 33, which is a limestone $4 \times 8 \times 6$ ins. above ground, marked and witnessed as described by the General Land Office. To further establish corner I take
- A pine, 6 ins. diam., bears S. $53^{\circ}15'$ E., 187 lks. dist., marked T 11 N R 2 E S 33 B T
- Thence I run
- E. $0^{\circ}09'$ W. on a true line between secs. 28 and 29, south half; gradually descending through scattering timber.
- .06 Set Boundary Post No. 15, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground and mound of rock, for witness corner to corner of secs. 28, 29, 32 and 33, marked on cap

LOGAN FOREST RESERVE BOUNDARY.

T. 11 N., R. 2 E.

Chains	T 11 N S 28 W C on N. E. R 2 E S 33 on S. E. S 32 on S. W. S 29 on N. W. No. 15 on S., and RESERVE on E. sides of top, with 1 notch on S. and 4 notches on E. edges of rim.
6.50	Enter heavy timber, bears E. and W.
15.00	Foot of descent, 150 ft. below top. Drain, course S. E. Drag road, following same. Leave timber, bears E. and W. Ascend.
34.98	Road from Millville to timber bears E. and W., soon to N. east of line.
35.09	Set Boundary Post No. 14, which is an iron post with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground and mound of stone, for forest re- serve line post No. 14, marked on cap No. 14 on S., and RESERVE on east sides of top, 250 ft. above drag road and drain, thence over broken east slope to
40.38	$\frac{1}{2}$ sec. corner between secs. 28 and 29, heretofore described. Land, mountainous. Soil, 4th rate. Timber, pine and aspen. Undergrowth, aspen. Formation, limestone.
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	I set off $10^{\circ}44'$ N. on the declination arc, and at 12h02 ^m by my watch observe the sun on the merid- ian and obtain a reading of $41^{\circ}39'$ on the lati- tude arc at the corner of secs. 28, 29, 32 and 33.
	Thence I run
39.92	South between secs. 32 and 33 on a random line. Intersect E. and W. line 40 lks. W. of $\frac{1}{2}$ sec. corner, which is a limestone $6 \times 10 \times 8$ ins. above ground, marked and witnessed as described by the General Land Office; to further establish corner I take bearing trees as follows: An aspen, 6 ins. diam., bears S. $84^{\circ}40'$ E., 79 lks. dist., marked $\frac{1}{2}$ S 33 B T An aspen, 4 ins. diam., bears N. $60^{\circ}30'$ W., 72 lks. dist., marked $\frac{1}{2}$ S 32 B T.
	Thence I run
	N. $0^{\circ}34'$ W. on a true line between secs. 32 and 33, ascending through aspen thicket.
15.00	Leave thicket, bears E. and W.
17.50	Top of ridge, bears E. W. and S. E., 150 ft. above $\frac{1}{2}$ sec. corner. Descend 600 ft. to drain and drag road.
24.00	Head of drain, course N. W.
39.92	Corner of secs. 28, 29, 32 and 33, heretofore des- cribed. Land, mountainous. Soil, 4th rate. Timber, scattering pine. Undergrowth, aspen.
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	August 25, 1904.
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40.00	August 26: From the $\frac{1}{2}$ corner between secs. 32 and 33, east on random line through sec. 33.
80.00	Set temporary center corner. At this point I set temporary, after making dili- gent search for $\frac{1}{2}$ sec. corner, and thence proceed south in search of corner of secs. 3, 4, 33 and 34, on south boundary of T. 11 N., R. 2 E., but

LOGAN FOREST RESERVE BOUNDARY.

T. 11 N., R. 2 E.

Chains	fail to find any traces of corner.
	August 26, -1904
	August 27: I find the $\frac{1}{2}$ sec. corner between secs. 4 and 33, which is a limestone 6x8x8 ins. above ground, marked and witnessed as described by the General Land Office, excepting that there are two bearing trees and no stone mound as reported in notes. The northwest tree agrees with notes. The other is a
	Spruce, 14 ins. diam., bears S. 13°15' E., 59 lks. dist., marked $\frac{1}{2}$ S 4 B T
	August 27, 1904.
	June 9:
	At the $\frac{1}{2}$ sec. corner between secs. 4 and 33 south boundary T. 11 N., R. 2 E., heretofore described, at 9 a.m., I set off 22°56' N. on the declination arc and 41°38' N. on the latitude arc, and determine a true meridian with the solar.
	Thence I run
40.00	S. 86°41' E. on a random line between secs. 4 and 33. Find no trace of old corner of secs. 3, 4, 33 and 34. Set temporary corner.
80.00	Find no trace of old $\frac{1}{2}$ sec. corner. Set temporary $\frac{1}{2}$ sec. corner.
	Thence I run
	East on a random line between secs. 3 and 34, from temporary $\frac{1}{2}$ sec. corner.
120.00	Find no trace of old corner of secs. 2, 3, 34 and 35. Set temporary sec. corner.
160.00	Find no trace of old $\frac{1}{2}$ sec. corner; set temporary $\frac{1}{2}$ sec. corner.
200.00	Find no trace of old corner of secs. 1, 2, 35 and 36. Set temporary corner.
240.00	Find no trace of $\frac{1}{2}$ sec. corner. Set temporary $\frac{1}{2}$ sec. corner.
278.32	Intersect N. and S. line 8.61 chs. south of corner of Tps. 10 and 11 N., R. 2 E., heretofore described. The falling answers to a correction of 2.46 chs. N. per mile or 1°46' counting from the west end of random.
	June 9 and 10, 1905.
	South Edy. T. 11 N., R. 2 E.
	June 11:
	At the corner of Tps. 10 and 11 N., R. 2 E., at 9 a.m., I set off 23°05' N. on the declination arc and 41°38' N. on the latitude arc and determine a true meridian with the solar.
	Thence I run
	S. 86°14' W. on a true line between secs. 1 and 36, over rolling country on high mountain, through some timber and undergrowth.
5.00	Descend gradually to
10.80	Head of drain, course S. E.
28.00	Head of drain, course S.
39.76	Set a limestone 24x18x4 ins. 18 ins. in the ground for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on N. face, from which
	A mahogany, 8 ins. diam., bears N. 85° W., 60 lks. dist., marked $\frac{1}{2}$ S 36 B T
	A mahogany, 6 ins. diam., bears S. 5° W., 40 lks. dist., marked $\frac{1}{2}$ S 1 B T
41.00	Head of small drain, course S. E.
43.00	Descend over steep rocky S. W. slope.
64.00	Drain, course S., about 1000 ft. below $\frac{1}{2}$ sec. corner. Begin steep ascent.

LOGAN FOREST RESERVE BOUNDARY.

South Boundary T. 11 N., R. 2 E.

Chains.

- 78.32 The true point for corner of secs. 1, 2, 35 and 36 falls in ledges and unsafe ground. Therefore at Set a blue limestone 24x14x6 ins., 18 ins. in the ground, for witness corner to corner of secs. 1, 2, 35 and 36, marked W. C. on N. E. face, 1 notch on E. and 5 notches on west edges, from which:
A maple, 5 ins. diam., bears S. 34°30' W., 36 lks. dist., marked T 10 N R 2 E S 2 B T
A maple, 5 ins. diam., bears N. 11°45' W., 185 lks. dist., marked T 11 N R 2 E S 35 B T
No other trees suitable; raise a mound of stone, 3½ ft. base, 1½ ft. high, west of corner around post.
- 78.38 Set iron U. S. Forest Reserve Boundary Post No. 21, 3 ft. in the ground and mound of stone, for witness corner to witness corner of secs. 1, 2, 35 and 36, marked on cap.
W C T 11 N S 36 on N. E.
R 2 E S 1 On S. E.
T 10 N S 2 on S. W.
S 35 on N. W.
No. 21 on south and 1 notch on E. and 5 notches on west edges of rim.
- 79.52 True point for corner of secs. 1, 2, 35 and 36. Land, mountainous.
Soil, stony, 4th rate.
Timber, some pine, mahogany and maple.
Formation, granite.
-
- 2.50 S. 88°14' W. on a true line between secs. 2 and 35, ascending to
Top of spur sloping south about 100 ft. above corner and 250 ft. above drain. Descend to
- 15.00 Head of drain, course S., about 200 ft. descent.
Ascend 500 ft. to
- 25.00 Top of sharp ridge bears N. and S. Descend 600 ft. through heavy timber to
- 39.76 Set a granite stone 20x14x5 ins., 15 ins. in the ground for ¼ sec. corner, marked ¼ on N. face, from which:
A mahogany, 6 ins. diam., bears N. 29° W., 70 lks. dist., marked ¼ S 35 B T
A cedar, 10 ins. diam., bears S. 88° W., 16 lks. dist., marked ¼ S 2 B T
- 40.60 Head of drain, course S. W.
- 52.50 Head of drain, course S. Ascend.
- 57.30 Top of ridge bears N. and S. 15° W., about 150 ft. above drain. Descend even slope, through scattering trees and brush.
- 79.52 Set a granite stone 22x12x8 ins., 18 ins. in the ground, for corner of secs. 2, 3, 34 and 35, marked with 2 notches on E. and 4 notches on W. edges, from which:
A spruce, 14 ins. diam., bears N. 4° W., 372 lks. dist., marked T 11 N R 2 E S 34 B T
A cedar, 24 ins. diam., bears S. 67° E., 144 lks. dist., marked T 10 N R 2 E S 2 B T
No other suitable trees; raise a mound of stone, 3½ ft. base, 1½ ft. high, west of corner around post.
Land, mountainous.
Soil, stony, 4th rate.
Timber, pine, cedar and mahogany.
Formation, granite.
-
- S. 88°14' W. on a true line between secs. 3 and 34. At this corner June 11, I set a 3" iron pin with the declination arc and at 11⁵⁹

158

LOGAN FOREST RESERVE BOUNDARY.
South Boundary T. 11 N., R. 2 E.

Chains.	sun on the meridian and obtain a reading of $41^{\circ}38'$ on the latitude arc, which is within 1' of the proper latitude.
.06	Descending through scattering brush bushes. Set iron U. S. Forest Reserve Boundary Post No. 20 3 ft. in the ground and mound of stone, for witness corner to corner of secs. 2, 3, 34 and 35, marked on cap: W C T 11 N S 35 on N. E. R 2 E S 2 on S. E. T 10 N B 3 on S. W. S 34 on N. W. No. 20 on S., with 2 notches on E. and 4 notches on west edges of rim.
35.10	Left Fork Blacksmith Fork creek, 25 lks. wide, course S. 10° W. A descent of about 1000 ft., thence over nearly level land.
36.04	Set iron U. S. Forest Reserve Boundary Post No. 19 3 ft. in the ground to mark boundary line near road, marked on cap: RESERVE on N. No. 19 on S.
36.26	Canyon road bears N. E. and S. W.
39.76	Set a granite stone 20x12x6 ins., 15 ins. in the ground for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on N. face, from which: A lone cedar, 6 ins. diam., bears N. $35^{\circ}30'$ W., 56 lks. dist., marked $\frac{1}{2}$ S 34 B T Dig pits 18x18x12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, north of corner. Thence I run N. $88^{\circ}27'$ W. on a true line between secs. 3 and 34, west half. Gradually ascending.
42.00	Begin ascending steep mountain.
79.46	Set iron U. S. Forest Reserve Boundary Post No. 18 3 ft. in the ground and mound of stone for witness corner to corner of secs. 3, 4, 33 and 34, marked on cap: W C T 11 N S 34 on N. E. R 2 E S 3 on S. E. T 10 N S 4 on S. W. S 33 on N. W. No. 18 on south side of top with 3 notches on E. and W. edges of rim.
79.52	The point for sec. corner falls on flat granite rock, 14x10 ins. at bottom of ledge, 4 ft. high, and 10 ft. long N. and S., on which I cut a cross (+) at corner point for corner of secs. 3, 4, 33 and 34, and marked 3 grooves on E. and W. sides of cross; raise a mound of stone $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, on top of ledge west of corner. This corner stands near N. E. end of a ledge of rock about 75 feet high. Land, mountainous. Soil, stony, 4th rate. Timber, scattering mahogany and some maple and cottonwood along creek. Formation, granite.
8.00	N. $88^{\circ}27'$ W. on a true line between secs. 4 and 33, east half, ascending steep mountain.
10.80	Foot of rock ledge about 60 ft. high bears N. and S. Top of ridge bears N. and S., thence gradually ascending.
16.00	Enter thicket of brush bears N. E. and S. W.
35.00	Descend gradually along N. slope.
39.76	$\frac{1}{2}$ sec. corner heretofore described.

LOGAN FOREST RESERVE BOUNDARY.

South Boundary T. 11 N., R. 2 E.

Chains. Land, mountainous.
Soil, stony, 4th rate.
Timber, scattering pine; undergrowth maple and aspen.
Formation, granite.

June 11, 1905.

T. 11 N., R. 2 E.

June 12:

At the corner of secs. 3, 4, 33 and 34 on south bdy.
T. 11 N., R. 2 E., heretofore described, at 8 a.m.,
l.m.t., I set off 23°09' N. on the declination arc
and 41°38' N. on the latitude arc and determine a
true meridian with the solar.

Thence I run

N. on a random line between secs. 33 and 34.

37.60 Find no trace of $\frac{1}{2}$ sec. corner. Set temporary $\frac{1}{2}$
sec. corner.

77.60 Find no trace of corner of secs. 27, 28, 33 and 34.
Set temporary sec. corner.

116.35 Intersect east and west line 39 lks. west of $\frac{1}{2}$ sec.
corner heretofore described.

Thence I run

S. 0°12' W. on a true line between secs. 27 and 28,
south half, descending steep broken S.W. slope.

10.90 Granite ledge about 50 ft. high bears E. and W.

Thence over even slope descending.

39.57 $\frac{1}{2}$ Set a granite stone 20x10x7 ins. 15 ins. in the ground
for corner of secs. 27, 28, 33 and 34, marked with
3 notches on E. and 1 notch on S. edges; raise a
mound of stone 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, west of
corner.

Land, mountainous.

Soil, 4th rate, stony.

Timber, none.

Formation, granite.

S. 0°12' W. on a true line between secs. 33 and 34,
descending over rough broken land.

20.10 Branch 5 lks. wide, course S. 20° E., about 500 ft.
below sec. corner. Ascend.

39.57 $\frac{1}{2}$ Set a granite stone 18x14x12 ins., 14 ins. in the
ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face;
dig pits 18x18x12 ins. N. and S. of stone 3 ft.
dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$
ft. high, west of corner.

58.80 Enter timber bears E. and W.

63.20 Leave timber bears E. and W., also top of ascent,
about 850 ft. above branch. Spur slopes E., thence
over rough broken east slope.

76.77 $\frac{1}{2}$ Corner of secs. 3, 4, 33 and 34 heretofore described.

Land, mountainous.

Soil, 4th rate.

Timber, pine.

Formation, granite.

From the $\frac{1}{2}$ sec. corner between secs. 32 and 33
heretofore described, I run

East on a random line through sec. 33.

40.00 Set temporary center corner.

81.24 Intersect R. and S. line 25 lks. S. of $\frac{1}{2}$ sec. corner
between secs. 33 and 34, heretofore described.

Thence I run

S. 89°49' W. on a true line through sec. 33, descend-
ing gradually through low brush.

.06 Set iron U. S. Forest Reserve Boundary Post No. 17
3 ft. in the ground, for witness corner to ~~corner~~

LOGAN FOREST RESERVE BOUNDARY.

15 D

T. 11 N., R. 2 E.

Chains.	$\frac{1}{2}$ sec. corner between secs. 33 and 34, marked on cap: W C $\frac{1}{2}$ S 34 on E. $\frac{1}{2}$ S 33 ON W. No. 17 on S, and RESERVE on N. and E. sides of top.
8.90	Drain, course N. E., about 75 ft. below $\frac{1}{2}$ sec. corner. Ascend.
24.50	Broken ledges of rock bears N. 15° E. and S. W.
26.00	Enter timber and dense undergrowth bears N. E. and S. W.
40.62	Set a limestone 18x10x7 ins., 14 ins. in the ground, for center corner, marked $\frac{1}{2}$ on N. face, from which: A spruce, 10 ins. diam., bears N. 63° W., 59 lks. dist., marked $\frac{1}{2}$ M L F B B T A spruce, 5 ins. diam., bears S. 44 lks. dist., marked $\frac{1}{2}$ M L F B B T
50.00	Head of drain, course N. E. Leave heavy timber bears N. E. and S. W.
55.25	Limestone ledge 20 ft. high bears N. E. and S. W.
58.00	Top of ascent bears N. E. and S. W., about 1400 ft. above $\frac{1}{2}$ sec. corner.
76.00	Enter aspen thicket bears N. and S.
81.19	Set iron U. S. Forest Reserve Boundary Post No. 16, 3 ft. in the ground, for witness corner to $\frac{1}{2}$ sec. corner, marked on cap: W C $\frac{1}{2}$ S 33 on E. $\frac{1}{2}$ S 32 on W. No. 16 on S., and RESERVE on N. E. sides of top.
81.24	$\frac{1}{2}$ sec. corner between secs. 32 and 33 heretofore described. Land, very rough and mountainous. Soil, 4th rate. Timber, pine and aspen. Formation, limestone and granite; undergrowth, aspen and larch.

June 16, 1905.

LOGAN FOREST RESERVE BOUNDARY.

East Bdy. T. 10 N., R. 2 E.

- Chains. September 11: At 8.30 a.m. I set off $4^{\circ}57'$ N. on the declination arc and $41^{\circ}38'$ on the latitude arc and determine a true meridian with the solar at the corner of Tps. 10 and 11 N., R. 2 E., heretofore described.
- I run south on E. boundary of sec. 1, through dense undergrowth.
- 4.99 Set an iron post with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground and mound of stone, for witness corner to closing corner of Tps. 10 and 11 N., R. 3 E., marked on cap:
T 11 N S 31 W C on E. E.
R 3 E CC on E.
T 10 N. S 6 on S. E.
No. 22 on S., and
RESERVE on N. E. sides of top, with 6 notches on N., E. and S. edges of rim.
- 5.05 The closing corner of Tps. 10 and 11 N., R. 3 E., which is a limestone $7 \times 8 \times 6$ ins. above ground, marked and witnessed as described by the General Land Office. South Bdy. T. 11 N. R. 3 E.
- From the closing corner to Tps. 10 and 11 N., R. 3 E., Thence I run
- East on random line between secs. 6 and 31, over heavy rolling land, through scattering timber.
- 64.07 Intersect N. and S. line 10 lks. N. of $\frac{1}{4}$ sec. corner, which is a limestone $10 \times 10 \times 8$ ins. above ground, marked and witnessed as described by the General Land Office. Trees marked on bark, therefore I blaze same and remark them.
- Thence I run
- N. $89^{\circ}55'$ W. on a true line between secs. 6 and 31, west half; descending through timber and dense undergrowth.
- .80 Drain, course N. E.; begin steep ascent, east slope.
- 8.50 Gradual ascent, bears N. and S.
- 14.50 Top of ascent, 100 ft. above drain, bears N. and S.; thence over rolling and rough land.
- 24.50 Enter aspen thicket, bears N. and S. Leave timber.
- 37.00 Begin descent of 150 ft., bears N. and S.
- 41.00 Leave aspen thicket, bears N. and S.; thence through scattering clumps of pine and aspen.
- 47.20 Head of drain, course N., foot of descent; thence over rolling land rough.
- 55.50 Head of drain, course N.
- 62.10 Head of drain, course S. E.
- 64.07 Closing corner of Tps. 10 and 11 N., R. 3 E., heretofore described.
- From the $\frac{1}{4}$ corner between secs. 31 and 6
- Thence I run
- East on random line between secs. 6 and 31, east half.
- 39.66 Intersect N. and S. line 64 lks. S. of corner of secs. 5, 6, 31 and 36, which is a limestone $8 \times 12 \times 8$ ins. above ground, marked and witnessed as described by the General Land Office.
- Thence I run
- S. $89^{\circ}05'$ W. on a true line between secs. 6 and 31, east half. Descending prairie.
- 14.10 Drain, course N. W. about 350 ft. below corner, ascend.
- 16.30 Leave prairie and enter timber bears N. and S.; dense undergrowth.
- 38.10 Top of ascent, bears N. and S., slopes N. 350 ft. above drain. Descend gradually.
- 39.66 $\frac{1}{4}$ sec. corner heretofore described.
Land, mountainous.
Soil, 3rd and 4th rate.
Timber, pine and aspen.

LOGAN FOREST RESERVE BOUNDARY.

South Bdy. T. 11 N., R. 3 E.

- Chains Undergrowth, aspen and larb.
Formation, limestone.
-
- From the corner of secs. 31, 32, 5 and 6,
East on random line between secs. 5 and 32,
west half.
- 39.91 Intersect N. and S. line 36 lks. N. of $\frac{1}{4}$ sec. corner, which is a limestone 6x10x8 ins., marked and witnessed as described by the General Land Office. To further establish this corner I take
A mahogany, 6 ins. diam., bears N. 22° E.,
40 lks. dist., and marked $\frac{1}{4}$ S 32 B T
A mahogany, 5 ins. diam., bears S. 27°30' W.,
105 lks. dist., marked $\frac{1}{4}$ S 5 B T
Thence I run
N. 89°29' W. on a true line between secs. 5 and 32,
east half, over rough rolling land, through brush.
- 6.90 Drain, course N.
38.72 Closing corner of secs. 5 and 6, T. 10 N., R. 3 E.,
on line, which is a limestone 5x7x8 ins. and mound
of stone on W.
- 39.85 Set Boundary Post No. 23, which is an iron post
with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in
the ground, for witness corner to corner of secs.
5, 6, 31 and 32, marked on cap:
T 11 N S 32 W C on N. E.
R 3 E S 5 on S. E.
T 10 N S 6 on S. W.
S 31 on N. W.
No. 23 on S., and
RESERVE on N. sides of top, with 5 notches on E.
and 1 notch on W. edge of rim.
- 39.91 The corner of secs. 31, 32, 5 and 6.
I set off 4°30' N. on the declination arc and at
12^h03^m l.m.t., observe the sun on the meridian and
obtain a reading of 41°38' on the latitude arc
at the $\frac{1}{4}$ corner between secs. 5 and 32.
Thence I run
East on random line between secs. 2 and 35, east
half.
- 39.93 Intersect N. and S. line 33 lks. S. of corner of
secs. 32, 33, 4 and 5, which is a limestone
5x8x4 ins. above ground, marked and witnessed as
described by the General Land Office.
Thence I run
S. 89°32' W. on a true line between secs. 2 and
35, east half; ascending through sage brush from
corner, which is in swale, course N.
- 11.40 Top of ridge, about 100 ft. above corner, bears
N. and S. Enter mahogany brush, same course,
thence over rough broken land.
- 14.90 Drain, course N.
30.40 Drain, course N.
39.93 $\frac{1}{4}$ sec. corner heretofore described.
Land, rough and broken.
Soil, 4th rate.
Timber and brush, mahogany and sage.
Formation, limestone.
-
- From the corner of secs. 32 and 33, 4 and 5 I run
East on random line, between secs. 4 and 33, west
half.
- 39.90 Intersect N. and S. line 2 lks. N. of $\frac{1}{4}$ sec. corner,
which is a limestone 7x5x9 ins. above ground,
marked and witnessed as described by the General
Land Office. To further establish corner I take
A cedar, 12 ins. diam., bears N. 10° W.. 59

LOGAN FOREST RESERVE BOUNDARY.

South Bdy. T. 11 N., R. 3 E.

Chains.	lks. dist., marked $\frac{1}{2}$ S 33 B T A mahogany, 6 ins. diam., bears S. $34^{\circ}30'$ E., 53 lks. dist., marked $\frac{1}{2}$ S 4 B T Thence I run N. $89^{\circ}58'$ W. on a true line between secs. 4 and 33, west half; over rough broken land, through mahog- any.
5.00	Drain, course S. W.
12.00	Same drain, course N. W.
27.90	Drain, course N., ascend 75 ft. to
33.00	Top of ridge, bears N. and S.; descend 50 ft. to swale.
38.81	Closing corner to corner of secs. 4 and 5, "N. 10 N., R. 3 E., a limestone with mound of rock to north.
39.84	Set Boundary Post No. 24, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., for witness corner to corner of secs. 4, 5, 32 and 33, marked on cap T 11 N S 33 W C on N. E. R 3 E S 4 on S. E. T 10 N S 5 on S. W. S 32 on N. W. No. 24 on S., and RESERVE on E. sides of top, with 4 notches on E. and 2 notches on W. edges of rim.
39.90	Corner of secs. 4, 5, 32 and 33, heretofore des- cribed. September 11, 1904. September 12: At 9 a.m. I set off $4^{\circ}11'$ N. on the declination arc and $41^{\circ}38'$ on the latitude arc, and determine a true meridian with the solar at the $\frac{1}{2}$ corner between secs. 4 and 33. Thence I run East on a random line between secs. 4 and 33, east half.
39.94	Intersect N. and S. line 23 lks. S. of corner of secs. 3, 4, 33 and 34, which is a limestone $4\frac{1}{2} \times 8$ ins. above ground, marked and witnessed as des- cribed by the General Land Office, except that the mound of rock was north of the corner. To further establish the corner I take A mahogany, 10 ins. diam., bears N. 32° E., 152 lks. dist., marked T 11 N E 3 E S 34 B T An aspen, 8 ins. diam., bears S. 54° E., 22 lks. dist., marked T 10 N E 3 E S 3 B T A maple, 6 ins. diam., bears S. $6^{\circ}45'$ W., 50 lks. dist., marked T 10 N E 3 E S 4 B T An aspen, 10 ins. diam., bears N. 11° W., 133 lks. dist., marked T 11 E R 3 E S 33 B T Thence I run S. $89^{\circ}40'$ W. on a true line between secs. 4 and 33, east half; ascending from corner in edge of aspen thicket.
.06	Set Boundary Post No. 25, which is an iron post with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 3, 4, 33 and 34, marked on cap: T 11 N S 34 W C on N. E. R 3 E S 3 on S. E. T 10 N S 4 on S. W. S 33 on N. W. No. 25 on S., and RESERVE on N. sides of top and 3 notches on E. and W. edges of rim.
2.00	Rock ledge, 6 ft. high bears N. and S. Leave aspen thicket N. and S., thence through mahogany brush.
15.50	Top of ridge, bears N. and S. about 75 ft. above corner. This is also divide between Blacksmith Fork River and Saddle Creek. Gradual descent over rough broken land to

LOGAN FOREST RESERVE BOUNDARY.

South Bay. T. 11 N., R. 3 E.

Chains.
39.94

$\frac{1}{4}$ sec. corner heretofore described.
Land, rough and broken.
Soil, 4th rate.
Timber, mahogany and aspen.
Formation, limestone.

I set off $4^{\circ}08'$ N. on the declination arc and at 12^h04^m l.m.t., observe the sun on the meridian and obtain a reading of $41^{\circ}38'$ on the latitude arc at corner of secs. 33, 34, 3 and 4.

Thence I run

East on random line between secs. 3 and 34.

39.98

Intersect N. and S. line 17 lks. S. of $\frac{1}{4}$ sec. corner, which is a limestone in place $10 \times 26 \times 2$ ins. above ground, marked and witnessed as described by the General Land Office.

Thence I run

S. $89^{\circ}45'$ W. on a true line between secs. 3 and 34, west half, over rolling broken land.

7.20

Drain, course S. Begin ascent of 300 ft. to top of divide.

38.82

Closing corner on line.

39.98

Corner of secs. 3, 4, 33 and 34, heretofore described.

From the $\frac{1}{4}$ corner between secs. 3 and 34

Thence I run

East on a random line between secs. 3 and 34, east half.

40.30

Intersect E. and S. line 27 lks. S. of corner of secs. 2, 3, 34 and 35, which is a limestone $5 \times 6 \times 8$ ins. above ground, marked and witnessed as described by the General Land Office, except that mound of rock is S. W. of corner.

Thence I run

S. $89^{\circ}37'$ W. on a true line between secs. 3 and 34, east half; gradually ascending.

4.30

Limestone ledge, 6 ft. high, bears N. E. and S. W.; top of ascent 40 ft. above corner, thence over rolling land.

17.60

Drain, course E.

26.00

Top of ridge, bears N. and S.; gradually descend W. slope to drain 150 ft.

34.00

Enter aspen thicket, bears N. and S.

40.30

$\frac{1}{4}$ sec. corner heretofore described. Leave aspen thicket, bears N. and S.

Land, rolling and broken.

Soil, 4th rate.

No timber, some aspen brush.

Formation, limestone.

September 12, 1904.

September 18: At 8.30 a.m., at the corner of secs. 34, 35, 2 and 3, I set off $1^{\circ}53'$ N. on the declination arc and $41^{\circ}38'$ on the latitude arc and determine a true meridian with the solar.

Thence I run

East on a random line, between secs. 2 and 35.

39.98

Intersect N. and S. line 7 lks. S. of $\frac{1}{4}$ sec. corner, which is a sandstone $8 \times 22 \times 8$ ins. above ground, marked and witnessed as described by the General Land Office. To further establish corner,

A lone cedar, 8 ins. diam., bears E. $10^{\circ}30'$ W. 77 lks. dist., marked $\frac{1}{4}$ S 35 B T

Thence I run

S. $89^{\circ}54'$ W. on a true line between secs. 2 and 35, west half; along south slope sage brush prairie.

5.00

Spring drain, 3 lks. wide, course S. E. Begin ascent

LOGAN FOREST RESERVE BOUNDARY.

South Boundary T. 11 N., R. 3 E.

- Chains of 200 ft. to
 35.00 Top of ascent, bears N. and E.; thence nearly level land.
 39.18 Closing corner on line.
 39.92 Set Boundary Post No. 26, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 2, 3, 34 and 35, marked on cap
 T 11 N S 35 W C on N. E.
 R. 3 E. S 2 on C. E.
 T 10 N S 3 on S. W.
 S 34 on N. E.
 No. 26 on S., and
 RESERVE on N. side of top, with 2 notches on E. and 4 notches on W. edges of rim.
 39.98 Corner of secs. 2, 3, 34 and 35 heretofore described. From the $\frac{1}{2}$ corner between secs. 2 and 35
 Thence I run
 East on random line between secs. 2 and 35, east half.
 40.10 Intersect N. and E. line 7 lks. S. of corner of secs. 1, 2, 35 and 36, which is a stone 6x10x6 ins. above ground, marked and witnessed as described by the General Land Office.
 Thence I run
 S. $89^{\circ}54'$ W. on a true line between secs. 2 and 35, east half; ascending sage brush prairie.
 5.00 Slope changes to S. E.
 40.10 $\frac{1}{2}$ sec. corner heretofore described.
 Land mountainous.
 Soil, 3rd and 4th rate.
 No timber; aspen and sage brush.
 Formation, limestone; some sandstone on east half.
-
- At the corner of secs. 35, 36, 1 and 2, I set off 1st 51' W. on the declination arc and at 11^h 55^m 1st 41', observe the sun on the meridian and obtain a reading of $41^{\circ}39'$ on the latitude arc.
 Thence I run
 East on a random line between secs. 1 and 36.
 39.98 Intersect N. and E. line 10 lks. S. of $\frac{1}{2}$ sec. corner, which is a sandstone 6x10x8 ins. above ground, marked as described by the General Land Office, but witnessed by round of rock to N. To further establish corner
 An aspen, 9 ins. diam., bears N. 30° E., 97 lks. dist., marked $\frac{1}{2}$ S 36 B T
 An aspen, 9 ins. diam., bears S. 59° E., 35 lks. dist., marked $\frac{1}{2}$ S 1 B T
 Thence I run
 S. $89^{\circ}51'$ W. on a true line between secs. 1 and 36, west half; over rolling land from corner, in edge of aspen thicket bearing N. and E., 1 ch. wide.
 7.50 Begin descent of E. W. slope.
 22.20 West edge of clump of aspen bears N.E. and S.E.
 22.70 Cache Valley and Bear Lake road, bears N. 20° E. and S. 20° W.
 22.89 Set Boundary Post No. 28, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, marked on cap:
 No. 28 on S., and
 RESERVE on N. sides of top.
 33.50 Rock creek, 25 lks. wide, water 1 inch deep, course S. 15° W., general course S. W., 450 ft. below top of ascent; ascend 50 ft. to
 39.92 Set Boundary Post No. 27, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs.

LOGAN FOREST RESERVE BOUNDARY.

South Edy. T. 11 N., R. 3 E.

- Chains. 1, 2, 35 and 36, marked on cap:
T 11 N S 36 W C on N. E.
T 3 E. S 1 on S. E.
T 10 N S 2 on S. W.
S 35 on N. W.
N. 27 on S., and
RESERVE on N. sides of top, with 1 notch on E.
and 5 notches on W. edges of rim.
- 39.98 Corner of secs. 1, 2, 35 and 36, heretofore described.
From the $\frac{1}{4}$ corner between secs. 1 and 36
Thence I run
East on random line between secs. 1 and 36, east
half.
- 39.88 Intersect N. and S. line 8 lks. S. of corner of
Tps. 10 and 11 N., Rs. 4 and 3 E., which is a
sandstone 6x12x10 ins., marked and witnessed as
described by the General Land Office.
Thence I run
S. 89°53' W. on a true line between secs. 1 and 36,
east half. Descending sage brush prairie.
- 6.40 Drain, course N. 15° W. 100 ft. below corner,
thence over broken land ascending 150 ft. to cor-
ner.
- 11.40 Drain, course N. E.
16.50 Drain, course W. E.
22.50 Small drain, course N.
38.50 Enter aspen thicket, bears N. and S.
39.88 $\frac{1}{4}$ sec. corner heretofore described.
Land, mountainous.
Soil, 4th rate.
A few aspen along line.
Formation, sandstone.

East Edy. T. 11 N., R. 3 E.

September 18: At the corner of Tps. 10 and 11 N.,
Rs. 3 and 4 E., at 4 p.m., I set off 1°47' N. on
the declination arc, and 41°38' on the latitude
arc, and determine a true meridian with the solar.
Magnetic declination is 18°04' E.

Thence I run

North, between secs. 31 and 36 on a random line.

- 40.25 Intersect E. and W. line, 18 lks. W. of $\frac{1}{4}$ sec. cor-
ner, which is a sandstone 6x12x10 ins. above
ground, marked and witnessed as described by the
General Land Office.

Thence I run

S. 0°15' W. on a true line between secs. 31 and 36,
south half; descending prairie.

- 9:25 Drain, course S. 15° W.
21.20 Rock creek, 6 lks. wide, course W. 70° W., 100 ft.
below corner; ascend about 125 ft. to township
corner.

- 25.00 Enter aspen thicket, bears N. 60° W. and S. 60° E.
35.00 Leave aspen thicket, bears E. and W.; thence in sage
brush to corner.

- 40.19 Set Boundary Post No. 29, which is an iron post
with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in
the ground, for witness corner to corner of Tps.
10 and 11 N., Rs. 3 and 4 E., marked on cap:
T 11 N S 31 W C on N. E.
R 4 E S 6 on S. E.
T 10 N S 1 on S. W.
R 3 E S 36 on E. W.
No. 29 on S., and
RESERVE on N. W. sides of top, with 6 notches on
N. E., S. and W. edges of rim.

LOGAN FOREST RESERVE BOUNDARY.

East Bdy. T. 11 N., R. 3 E.

Chains.	
40.25	Corner of Tps. 10 and 11 N., Rs. 3 and 4 E., heretofore described.
	September 18, 1904.
	September 19: At the $\frac{1}{2}$ corner between secs. 31 and 36 at 8 a.m. I set off $1^{\circ}31'$ E. on the declination arc and $41^{\circ}36'$ on the latitude arc, and determine a true meridian with the solar.
	Thence I run
	North on a random line between secs. 31 and 36, north half.
40.20	Intersect E. and W. line 17 lks. E. of corner of secs. 25, 30, 31 and 36, which is a granite stone $8 \times 10 \times 16$ ins., marked and witnessed as described by the General Land Office. To further establish corner
	An aspen 10 ins. diam., bears N. $66^{\circ}20'$ E., 146 lks. dist., marked T 11 N R 4 E S 30 P T
	Thence I run
	S. $0^{\circ}15'$ E. on a true line between secs. 31 and 36, north half; descending S. E. slope through scattering aspen.
.06	Set Boundary Post No. 31, which is an iron post with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground and mound of rock, for witness corner to corner of secs. 25, 30, 31 and 36, marked on cap:
	T 11 N S 30 W C on N. E.
	R 4 E S 31 on S. E.
	S 36 on S. W.
	R 3 E S 25 on E. W.
	No. 31 on S., and
	RESERVE on W. sides of top, with 5 notches on N. and 1 notch on S. edges of rim.
3.29	Set Boundary Post No. 30, which is an iron post with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground and mound of rock, marked on cap:
	No. 30 on S., and
	RESERVE on W. sides of top.
3.60	Bear Lake and Cache Valley road, bears N. E. and S. W.
4.10	Drain, course S. W., 100 ft. below corner, thence along E. W. slope; enter heavy aspen thicket, bears E. and W.
14.70	Leave aspen thicket, bears E. and W.
25.00	Slope changes to S., descend to corner.
40.20	$\frac{1}{2}$ sec. corner heretofore described.
	Land, mountainous.
	Soil, 3rd and 4th rate.
	Timber, aspen. Undergrowth, aspen.
	Formation, limestone and granite.
	From the corner of sec. 25, 30, 31 and 36,
	North on a random line between secs. 25 and 30.
40.30	Intersect E. and W. line 33 lks. E. of $\frac{1}{2}$ sec. corner, which is a granite stone $6 \times 8 \times 12$ ins. above ground marked and witnessed as described by the General Land Office. To further establish corner
	An aspen, 6 ins. diam., bears N. $35^{\circ}25'$ W., 421 lks. dist., marked $\frac{1}{2}$ S 25 E T
	Thence I run
	S. $0^{\circ}28'$ E. on a true line between secs. 25 and 30, south half.
.80	Top of ridge, bears E. and W. Descend through scattering aspen (about 350 ft. above Rock Creek).
28.80	A spur slope to the S. W.
40.30	Corner of secs. 25, 30, 31 and 36, heretofore described.

LOGAN FOREST RESERVE BOUNDARY.

East Boundary T. 11 N., R. 3 E.

- | | |
|--------|--|
| Chains | From the $\frac{1}{2}$ corner between secs. 25 and 30.
Thence I run
North on a random line between secs. 25 and 30,
north half. |
| 40.28 | Intersect E. and W. line 6 lks. E. of corner of
secs. 19, 24, 25 and 30, which is a granite stone
10x12x8 ins. above ground, marked and witnessed
as described by the General Land Office.
Thence I run
S. 0°05' E. on a true line between secs. 25 and 30,
north half. |
| 18.80 | Top of ridge 500 ft. above Rock Creek, bears E. and
W. Descend. |
| 37.70 | Head of drain, course W. |
| 40.28 | $\frac{1}{4}$ sec. corner heretofore described.
Land, mountainous.
Soil, 4th rate.
Timber, scattering aspen.
Formation, granite. |
| <hr/> | |
| | North on a true line between secs. 19 and 24 to
the closing corner of secs. 19 and 30. Descending
steep rocky N. slope. |
| .06 | Set Boundary Post No. 32, which is an iron post,
with brass cap, 4 ft. long, 4 ins. diam., 3 ft.
in the ground and mound of rock, for witness cor-
ner to corner of secs. 19, 24, 25 and 30, marked
on cap:
T 11 N S 19 W C on N. E.
R 4 E S 30 on S. E.
S 25 on S. W.
R 3 E S 24 on N. W.
No. 32 on S., and
RESERVE on W. sides of top, with 4 notches on N.
and 2 notches on S. edges of rim.
Note: On account of steepness and nature of ground,
consider it much better to set the iron corner
here instead of the closing corner. |
| 6.99 | The closing corner of secs. 19 and 30, T. 11 N.,
R. 4 E., which is a limestone 8x14x16 ins. above
ground, witnessed and marked as described by the
General Land Office.
Land, rough mountainous.
Soil, 4th rate, rocky.
No timber.
Formation, limestone. |
| <hr/> | |
| | I set off 1°27' on the declination arc and at
11^h56^m l.m.t., observe the sun on the meridian
and obtain a reading of 41°40' on the latitude
arc.
At 1.30 p.m. I set off 1°25' N. on the declination
arc and 41°40' on the latitude arc and determine
a true meridian with the solar at the closing cor-
ner of secs. 19 and 30, T. 11 N., R. 4 E., hereto-
fore described. |
| 29.53 | Thence I run
East on a random line between secs. 19 and 30.
Intersect N. and S. line 27 lks. S. of corner of
secs. 19, 20, 29 and 30, which is a granite stone
6x8x2 ins. above ground, marked and witnessed as
described by the General Land Office.
Thence I run
S. 89°29' W. on a true line between secs. 19 and
30; along south slope, through prairie, scatter-
ing aspen. |
| 6.00 | Begin descent over N. W. slope. |

LOGAN FOREST RESERVE BOUNDARY.

T. 11 N., R. 4 E.

Chains At 1.30 p.m. I set off $1^{\circ}25'$ N. on the declination arc and $41^{\circ}40'$ on the latitude arc and determine a true meridian with the solar at the closing corner of secs. 19 and 30, T. 11 N., R. 4 E., heretofore described.

Thence I run
East on a random line between secs. 19 and 30.

29.53 Intersect N. and S. line 27 lks. S. of corner of secs. 19, 20, 29 and 30, which is a granite stone $6 \times 8 \times 2$ ins., above ground, marked and witnessed as described by the General Land Office.

Thence I run
S. $89^{\circ}29'$ W. on a true line between secs. 19 and 30; along south slope through prairie, scattering aspen.

6.00 Begin descent over N. W. slope.

15.50 Drain, course N. Foot of 150 ft. descent. At this point enter spruce and fir timber, bears N. and S. Ascend N. E. slope.

17.20 Rough and broken limestone ledge 20 ft. high, bears S. E. and N. W.

19.50 Top of spur, bears N. and S., 100 ft. above drain. Leave spruce and fir timber, bears N. and S. Thence through aspen, descending E. W. slope.

29.53 Closing corner of secs. 19 and 30, T. 11 N., R. 4 E., heretofore described, 100 ft. below top of spur. Land, mountainous. Soil, 4th rate. Timber, spruce and fir; aspen undergrowth. Formation, limestone.

At corner of secs. 19, 20, 29 and 30, T. 11 N., R. 4 E., heretofore described, I set off $1^{\circ}27'$ N. on the declination arc and at $11^{\text{h}}55^{\text{m}}$ by my watch observe the sun on the meridian; the resulting latitude is $41^{\circ}40'$.

From corner of secs. 19, 20, 29 and 30

Thence I run

39.98 East on a random line between secs. 20 and 29. Intersect N. and S. line 17 lks. N. of $\frac{1}{2}$ sec. corner, which is a granite stone $6 \times 6 \times 10$ ins. above ground, marked and witnessed as described by the General Land Office.

Thence I run

N. $89^{\circ}45'$ W. on a true line between secs. 20 and 29, west half. Descend steep W. slope, through prairie.

2.00 Leave prairie, enter aspen brush, bears N. and S.

12.00 Leave aspen, bears N. and S.; enter prairie.

24.38 Drain, course S., 200 ft. below $\frac{1}{2}$ sec. corner.

24.78 Bear Lake road, bears N. and S.

25.01 Set Boundary Post No. 34, which is an iron post, 4 ft. long, 4 ins. in diam., with brass cap, 3 ft. in the ground, for forest reserve boundary line post, marked:

No. 34 on S. edge of cap,

RESERVE in N. E. and N. W. quadrants on cap.

Ascend gradual S. E. slope.

39.92 Set Boundary Post No. 33, which is an iron post, 4 ft. long, 4 ins. in diam., with brass cap, 2 ft. in the ground; raise a mound of stone, 4 ft. base, $1\frac{1}{2}$ ft. high, around post for witness corner to corner of secs. 19, 20, 29 and 30, marked on beveled edge of cap:

T 11 N S 20 W C On N. E.

R 4 E S 29 on S. E.

S 30 on S. W.

LOGAN FOREST RESERVE BOUNDARY.

T. 11 N., R. 4 E.

Chains. S 19 on N. W., on top of cap,
No. 33 on S.
RESERVE in N. E. and N. W. quadrants, with 2
notches on S. and 5 on E. edges.
39.98 Corner of secs. 19, 20, 29 and 30, heretofore
described.
From the $\frac{1}{2}$ corner between secs. 20 and 29
Thence I run
Easton a random line between secs. 20 and 29, east
half.
39.81 Intersect N. and S. line 59 lks. N. of corner of
secs. 20, 21, 28 and 29, which is a sandstone
6x8x10 ins. above ground, marked and witnessed
as described by the General Land Office.
Thence I run
N. 89°09' W. on a true line between secs. 20 and 29,
east half; through willow brush, ascending S. E.
slope.
1.20 Sidhill drain, course S. E.
4.00 Leave brush, bears N. W. and S. E.; enter prairie
and begin descent over S. W. slope.
18.00 Slope changes to gradual W. slope.
34.00 Changes to steep W. slope.
39.81 $\frac{1}{2}$ sec. corner heretofore described.
Land, mountainous.
Soil, 4th rate.
Timber, willow and aspen brush.
Formation, granite.

September 19, 1904.

September 20: At the corner of secs. 20, 21, 28 and
29, heretofore described, at 8 a.m., l.m.t., I
set off 1°08' N. on the declination arc and 41°40'
N. on the latitude arc and determine a true merid-
ian with the solar.

Thence I run

North on a random line, south half, between secs.
20 and 21.

40.11 Intersect E. and W. line 24 lks. W. of $\frac{1}{2}$ sec. cor-
ner, which is a granite 8x10x24 ins. above ground,
marked and witnessed as described by the General
Land Office. To further establish corner I
proceed to take bearing trees as follows:

A mahogany, 8 ins. diam., bears S. 49°27' E.,
70 lks. dist., marked $\frac{1}{2}$ S 21 B T

A mahogany, 6 ins. diam., bears N. 71°47' W.,
79 lks. dist., marked $\frac{1}{2}$ S 20 B T

Thence I run

S. 0°21' W. on a true line, south half, between
secs. 20 and 21. Descend S. W. slope through
scattering spruce fir and mahogany.

10.71 Dry drain, course W., 200 ft. below $\frac{1}{2}$ sec. corner.
Ascend steep E. slope.

22.50 Leave scattering timber, bears E. and W. Enter as-
pen thicket, changes to N. E. slope.

35.00 Leave aspen thicket, bears E. and W. Enter prairie.

36.00 Top of small ridge, bears N. W. and S. E., 250
ft. above drain; descend S. slope.

40.05 Set Boundary Post No. 35, which is an iron post
with brass cap, 4 ft. long, 4 ins. diam., 3 ft.
in the ground, for witness corner to corner of
secs. 20, 21, 28 and 29, marked on cap:

T 11 N S 21 W C on N. E.

R 4 E S 28 on S. E.

S 29 on S. W.

S 20 on N. W.

No. 35 on S.

RESERVE in N.W. quadrant, with 7 notches on S.

DOGAN FOREST RESERVE BOUNDARY.

T. 11 N., R. 4 E.

- Chains. and 4 notches on E. edges.
- 40.11 Corner of secs. 20, 21, 28 and 29, heretofore described.
From the $\frac{1}{2}$ corner between secs. 20 and 21
Thence I run
North on a random line, north half, between secs. 20 and 21.
- 40.08 Intersect E. and W. line 4 lks. E. of corner of secs. 16, 17, 20 and 21, which is a granite stone 6x8x8 ins. above ground, marked and witnessed as described by the General Land Office.
Thence I run
S. $0^{\circ}03'$ E. on a true line, north half, between secs. 20 and 21. Ascend north slope through prairie, some scattering aspen brush.
- 6.00 Top of ridge, bears E. and W. Descend S. slope.
- 22.57 Set Boundary Post No. 36, which is an iron post, with brass cap, 4 ft. long, 4 ins. in diam., 3 ft. in the ground, for forest reserve boundary line post, marked on cap:
No. 36 on S.
RESERVE in S. W. and N. W. quadrants.
- 22.63 Cache Valley and Bear Lake road, bears N. E. and S. W.; foot of 150-foot descent; ascend N. W. slope.
- 31.00 Enter spruce and fir timber, bears E. and W.
- 39.00 Leave spruce and fir timber; bears E. and W.
Enter scattering spruce, fir and mahogany.
- 40.08 $\frac{1}{2}$ sec. corner heretofore described.
Land, mountainous.
Soil, 4th rate.
Timber, spruce and fir; mahogany and aspen brush.
Formation, granite.
-
- At corner of secs. 16, 17, 20 and 21, heretofore described, I set off $1^{\circ}03'$ N. on declination arc and at 11^h55^m l.m.t., observe the sun on the meridian. The resulting latitude is $41^{\circ}41'$.
Thence I run
North on a random, south half, between secs. 16 and 17.
- 40.00 Find no trace of the $\frac{1}{2}$ sec. corner; set temporary and continue random north.
- 80.26 Intersect E. and W. line 23 lks. W. of corner of secs. 8, 9, 16 and 17, which is a granite 8x12x10 ins. above ground, marked and witnessed as described by the General Land Office. To further establish corner
A pine, 12 ins. diam., bears E. $34^{\circ}18'$ E., 200 lks. dist., marked T 11 N R 4 E S 9 B T
Thence I run
S. $0^{\circ}10'$ W. on a true line between secs. 16 and 17.
Descend S. W. slope through scattering spruce, pine and mahogany.
- .06 Set Boundary Post No. 38, which is an iron post, with brass cap, 4 ft. long, 4 ins. in diam., 3 ft. in the ground, for witness corner to corner of secs. 8, 9, 16 and 17, marked on cap:
T 11 N S 9 W C on N. E.
R 4 E S 16 on S. E.
S 17 on S. W.
S 8 on N. W.
No. 38 on S.
RESERVE in N.E., S.W. and N.W. quadrants, with 4 notches on S. and 4 notches on E. edges.
- 3.86 Drain, course W., 50 ft. below corner. Ascend N.W. slope.
- 12.00 Top of ridge, bears E. and W. 250 ft. above drain.

LOCAL FOREST RESERVE BOUNDARY.

T. 11 N., R. 4 E.

- Chains. Descend S. W. slope.
- 18.00 Drain, course W.; ascend N. W. slope.
- 19.00 Top of ridge, bears F. and W. Descend S. W. slope.
- 29.76 Drain, course W., 250 ft. below top of ridge;
ascend N. W. slope.
- 39.00 Top of ascent, 100 ft. above drain; thence along
W. slope.
- 40.13 Set a sandstone 18x14x10 ins., 12 ins. in the
ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face;
raise a mound of stone, 2 ft. base, $1\frac{1}{4}$ ft. high,
W. of corner, from which
A mahogany, 10 ins. diam., bears S. $23^{\circ}20'$ E.,
110 lks. dist., marked $\frac{1}{2}$ S 16 B T
A mahogany, 6 ins. diam., bears N. $22^{\circ}45'$ W.,
100 lks. dist., marked $\frac{1}{2}$ S 17 B T
- 50.00 Begin descent over S. W. slope, through rough and
broken ledges.
- 58.00 Dry drain, course W. Foot of 350 foot descent.
At this point leave scattering timber and mahog-
any. Enter aspen brush bears F. and W.; ascend
E. slope.
- 60.20 Set Boundary Post No. 37, which is an iron post,
with brass cap, 4 ft. long, 4 ins. diam., 3 ft.
in the ground, for witness corner to corner of
secs. 16, 17, 20 and 21, marked on cap:
T 11 N S 16 W C on E. E.
R 4 E S 21 on E. E.
S 10 on S. E.
S 17 on E. W.
Po. 37 on S.
RESERVE in S. E. and E. W. quadrants, with 3
notches on S. and 4 notches on E. edges.
- 60.26 Corner of secs. 16, 17, 20 and 21 heretofore
described.
Land, mountainous.
Soil, 4th rate.
Timber, spruce, pine and fir; mahogany and aspen
brush.
Formation, granite.

September 20, 1904.

- September 23: At corner of secs. 8, 9, 16 and 17,
heretofore described, at 9 a.m., l.m.t., I set
off $0^{\circ}06'$ S. on declination arc and $41^{\circ}41'$ E. on
the latitude arc and determine a true meridian
with the solar.
- Thence I run
East on a random line, west half, between secs.
9 and 16.
- 40.40 Intersect E. and S. line 14 lks. N. of $\frac{1}{2}$ sec. cor-
ner, which is a granite 4x10x8 ins. above ground,
marked and witnessed as described by the General
Land Office.
- Thence I run
N. $89^{\circ}48'$ E. on a true line, west half, between
secs. 9 and 16; along E. slope, through aspen
brush.
- 5.00 Drain, course N. Ascend N. E. slope.
- 12.00 Top of ridge, bears N. and S., 50 ft. above drain;
descend N. W. slope.
- 26.00 Leave aspen, bears N. and S. Enter scattering spruce
and fir timber and mahogany some mahogany.
- 35.00 Rough and broken granite ledge 12 ft. high, bears
N. E. and S. W., changes to W. slope.
- 40.40 Corner of secs. 8, 9, 16 and 17, heretofore des-
cribed.
Work discontinued on account of cloudy weather.
September 23, 1904.

LOGAN FOREST RESERVE BOUNDARY.

T. 11 N., R. 4 E.

- Chains. September 24: At the $\frac{1}{2}$ sec. corner between secs. 9 and 16, heretofore described, at 9 a.m., I set off $0^{\circ}27'$ S. on the declination arc and $41^{\circ}42'$ W. on the latitude arc, and determine a true meridian with the solar.
- Thence I run
North on a random line through sec. 9.
- 80.16 Intersect E. and W. line 64 lks. E. of $\frac{1}{2}$ sec. corner, which is a granite $4 \times 10 \times 6$ ins. above ground, marked and witnessed as described by the General Land Office. To further establish corner:
A pine, 18 ins. diam., bears S. $19^{\circ}45'$ E., 178 lks. dist., marked $\frac{1}{2}$ S 9 B T
- Thence I run
S. $0^{\circ}27'$ E. on a true line through sec. 9. Ascend N. E. slope through scattering spruce, fir and mahogany.
- .06 Set Boundary Post No. 40, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to $\frac{1}{2}$ sec. corner between secs. 4 and 9, marked on cap:
W C on E. E.
No. 40 S 9 on S.
 $\frac{1}{2}$ S 4 on E.
RESERVE in N.E., S.E. and E.W. quadrants.
- 14.00 Top of ridge, bears N. and W., 150 ft. above corner. Descend S. E. slope.
- 16.96 Dry drain, course E., 100 ft. below top of ridge.
- 28.00 Top of spur, bears E. E. and S. E.
- 31.00 Dry drain, course E. E. Ascend E. E. slope.
- 39.00 Leave scattering timber; enter aspen thicket, bears E. and W.; changes to E. slope.
- 40.08 Set a granite stone $16 \times 10 \times 8$ ins. 11 ins. in the ground for S. $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ M on W. face, from which
An aspen, 4 ins. diam., bears S. 30° E., 16 lks. dist., marked $\frac{1}{2}$ M L F B B T
An aspen, 5 ins. diam., bears N. $76^{\circ}45'$ W., 73 lks. dist., marked $\frac{1}{2}$ M L F B B T
- 47.00 Top of ridge, bears N. and W., 450 ft. above drain, descend E. slope.
- 61.66 Dry drain, course E., 100 ft. below top of ridge. Ascend E. slope.
- 80.10 Set Boundary Post No. 39, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to $\frac{1}{2}$ sec. corner between secs. 9 and 16, marked on cap:
W C on E. E. quadrant
No. 39 S 16 on S.
 $\frac{1}{2}$ S 9 on E.
RESERVE in E. E. quadrant.
- 80.16 $\frac{1}{2}$ corner between secs. 9 and 16, heretofore described.
Land, mountainous.
Soil, 4th rate.
Timber, spruce and fir; mahogany and aspen brush.
Formation, granite.
-
- At the $\frac{1}{2}$ sec. corner between secs. 4 and 9, T. 11 N., R. 4 E., heretofore described, I set off $0^{\circ}30'$ S. on the declination arc and at $11^{\text{h}}55^{\text{m}}$ l.m.t., observe the sun on the meridian. The resulting latitude is $41^{\circ}42'$.
- Thence I run
East on a random line, east half, between secs. 4 and 9.

LOGAN FOREST RESERVE BOUNDARY.

T. 11 N., R. 4 E.

Chains.	
40.45	Intersect N. and S. line 88 lks. S. of corner of secs. 3, 4, 9 and 10, which is a sandstone 6x7x8 ins. above ground, marked and witnessed as described by the General Land Office. To further establish corner I take An aspen, 4 ins. diam., bears S. 47°40' W., 72 lks. dist., marked T 11 N R 4 E S 9 B T Thence I run S. 88°45' W. on a true line, east half, between secs. 4 and 9. Descend W. slope through scattering aspen.
3.30	Foot of 30-foot descent, drainage to the E.; dim road bears N. and S. Ascend E. slope.
13.00	Top of ridge, bears N. and S. Descend N. W. slope through scattering aspen and mahogany brush.
27.00	Drain, course N. W. At this point enter heavy spruce and fir timber, bears N. W. and S. E. Leave brush; thence along N. slope.
37.00	Leave heavy timber, bears N. and S., continue through scattering timber and brush; change to N. W. slope descending.
38.00	Limestone ledge 7 ft. high, bears N. E. and S. W.
40.45	$\frac{1}{2}$ sec. corner between secs. 4 and 9, heretofore described, 350 ft. below top of ridge. Land, mountainous. Soil, 4th rate. Timber, spruce and fir; mahogany and aspen brush. Formation, limestone and granite.
	From corner of secs. 3, 4, 9 and 10, heretofore described, I run North on a random line, south half, between secs. 3 and 4.
40.03	Intersect E. and W. line 6 lks. E. of $\frac{1}{2}$ sec. corner between secs. 3 and 4, which is a limestone 6x12x10 ins. above ground, marked and witnessed as described by the General Land Office. Thence I run S. 0°05' E. on a true line between secs. 3 and 4, south half; ascend N. E. slope through prairie.
31.50	Same dim road, bears N. E. and S. W., changes to N. W. slope.
39.97	Set Boundary Post No. 41, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 3, 4, 9 and 10, marked on cap: T 11 N S 3 W C on N. E. R 4 E S 10 on S. E. S 9 on S. W. S 4 on N. W. No. 41 on S. RESERVE in N. W. quadrant, with 5 notches on S. and 3 notches on E. edges.
40.03	Corner of secs. 3, 4, 9 and 10, heretofore described, 350 ft. above $\frac{1}{2}$ sec. corner. From $\frac{1}{2}$ sec. corner between secs. 3 and 4, heretofore described, I run North on a random line, north half, between secs. 3 and 4, T. 11 N., R. 4 E.
46.08	Intersect E. and W. line 16 lks. E. of closing corner of secs. 3 and 4, which is a sandstone 8x10x6 ins. above ground, marked and witnessed as described by the General Land Office. Thence I run S. 0°12' E. on a true line, north half, between secs. 3 and 4, along E. slope.
13.50	Drain, course E.
16.00	Top of ridge, bears E. and W.
19.50	Drain, course E.

LOGAN FOREST RESERVE BOUNDARY.

T. 11 N., R. 4 E.

Chains.

- 25.00 Ridge, bears N. W. and S. E.
Thence descend steep S. slope.
- 38.50 Saddle Creek, dry; course W., 200 ft. below top of ridge; thence over bottom land.
- 41.00 Begin ascent over steep N. E. slope.
- 46.08 $\frac{1}{4}$ sec. corner heretofore described.
Land, mountainous.
Soil, 4th rate.
No timber, aspen brush.
Formation, limestone.

September 24, 1904.

September 25th At the closing corner of secs. 3 and 4 heretofore described, at 8 a.m., l.m/t., I set off 0°49' S. on the declination arc and 41°43' on the latitude arc and determine a true meridian with the solar.

Thence I run

East on a random line, west half, along south boundary of sec. 34, south boundary T. 12 N., R. 4 E.

WEST ALONG SOUTH BOUNDARY SEC. 34, SOUTH BOUNDARY T. 12 N., R. 4 E.

- 29.59 Intersect N. and S. line 17 lks. S. of $\frac{1}{4}$ sec. corner, which is a sandstone 6x8x8 ins. above ground, mound of stone, marked and witnessed as described by the General Land Office.
Thence I run
S. 89°39' W. on a true line, west half, along south boundary sec. 34; Descend steep W. slope through prairie.
- 6.98 Set Boundary Post No. 43, which is an iron post, with brass cap, 4 ft. long, 4 ins. in diam., 3 ft. in the ground, for Forest Reserve Boundary line post, marked on cap:
No. 43 on S.
Reserve in N. E. and N. W. quadrants.
- 7.19 Road, bears N. and S.
- 11.59 Saddle Creek (dry), course S., 200 ft. below $\frac{1}{4}$ sec. corner; ascend E. slope through scattering aspen.
- 29.53 Set Boundary Post No. 42, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to closing corner of secs. 3 and 4, marked on cap:
W C on N. E.
R 4 E S 3 on S. E.
T 11 N S 4 on S. W.
No. 42 O C on S.
RESERVE in N. E., S. W. and N. W. quadrants, with 3 notches on E. and 3 notches on W. edges.
- 29.59 Closing corner of secs. 3 and 4 heretofore described. From $\frac{1}{4}$ sec. corner between secs. 3 and 34 heretofore described, I run
East on a random line (east half) along south boundary of sec. 34.
- 39.91 Intersect N. and S. line 4 lks. S. of corner of secs. 34 and 35, which is a sandstone 8x12x10 ins. above ground, marked and witnessed as described by the General Land Office, with this exception: I find four old bearing trees at this corner, properly marked for corner common to four secs.
Thence I run
S. 89°57' W. on a true line, east half, between secs. 3 and 34, south boundary T. 12 N., R. 4 E.
Descend W. slope through aspen.
- 1.41 Dry drain, course N. W. Thence along N. slope

LOGAN FOREST RESERVE BOUNDARY.

South Bdy. T. 12 N., R. 4 E.

Chains

- 21.00 Leave aspen thicket, bears N. W. and S. E.; continue through scattering aspen. Begin descent over N. W. slope.
- 24.41 Dry drain, course N., foot of 50-foot descent.
- 27.00 Top of short ascent; thence along N. slope.
- 34.50 Leave aspen, bears N. W. and S. E.; also ridge bears N. W. and S. E.; thence descend W. slope.
- 39.91 $\frac{1}{2}$ sec. corner heretofore described, 100 ft. below top of ridge,
At 10.30 work discontinued on account of clouds.
Land, mountainous.
Soil, 4th rate.
No timber; aspen brush.
Formation, limestone.

September 25, 1904.

September 26: At corner of secs. 34 and 35, heretofore described, at 8 a.m., l.m.t., I set off $1^{\circ}12'$ S. on the declination arc and $41^{\circ}43'$ N. on the latitude arc and determine a true meridian with the solar.

Thence I run

East on a random line, west half, between secs. 2 and 35.

- 39.80 Intersect N. and S. line 39 lks. N. of $\frac{1}{2}$ sec. corner, which is a sandstone $10 \times 10 \times 8$ ins. above ground; marked and witnessed two old bearing trees as described by the General Land Office.

Thence I run

N. $89^{\circ}27'$ W. on a true line, west half, between secs. 2 and 35; along N. slope through aspen.

- 16.00 Begin descent over N. W. slope.
- 17.00 Leave aspen bears N. and S.; enter prairie.
- 29.00 Enter aspen, bears N. W. and S. E.; leave prairie.
- 31.80 Dry drain, course N. W., foot of 200-foot descent, ascend N. E. slope.
- 39.74 Set Boundary Post No. 44, which is an iron post, with brass cap, 4 ft. long, 4 ins. in diam., 3 ft. in the ground, for witness corner to corner of secs. 2, 3, 34 and 35, marked on cap:
T 12 N S 35 W C on N. E.
R 4 E S 2 on S. E.
T 11 N S 3 on S. W.
S 34 on N. W.

No. 44 on S.

RESERVE in N. E. and N. W. quadrants, with 2 notches on E. and 4 notches on west edges.

- 39.80 Corner of secs. 34 and 35, heretofore described. From $\frac{1}{2}$ sec. corner between secs. 2 and 35, heretofore described, I run

East on a random line.

- 39.75 Intersect N. and S. line 26 lks. N. of corner of secs. 35 and 36, which is a sandstone (not quartzite) $6 \times 8 \times 12$ ins. above ground, marked and witnessed as described by the General Land Office.

Thence I run

N. $89^{\circ}38'$ W. on a true line, east half, between secs. 2 and 35; along N. slope, through prairie.

- 9.75 Dry drain, course N.; ascend N. E. slope.
- 17.00 Leave prairie, enter aspen, bears N. and S.
- 39.75 $\frac{1}{2}$ sec. corner heretofore described, 150 ft. above drain.

Land, mountainous.

Soil, 4th rate.

No timber, aspen brush.

Formation, sandstone.

At corner of secs. 35 and 36, heretofore described.

LOGAN FOREST RESERVE BOUNDARY.

South Bdy. T. 12 N., R. 4 E.

Chains.	I set off 1°17' S. on the declination arc, and at 11 ^h 54 ^m observe the sun on the meridian. The resulting latitude is 41°43'.
	Thence I run
	N. on a random line, south half, between secs. 35 and 36.
40.04	Intersect N. and W. line 10 lks. W. of $\frac{1}{2}$ sec. corner, which is a sandstone 6x10x6 ins. above ground, marked and witnessed as described by the General Land Office.
	Thence I run
	S. 0°09' W. on a true line, south half, between secs. 35 and 36. Descend south slope, through prairie.
3.34	Dry drain, course W., ascend gradual E. slope.
39.98	Set Boundary Post No. 45, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 1, 2, 35 and 36, marked on cap: T 12 N S 36 W C on N. E. R 4 E S 1 on S. E. T 11 N S 2 on S. W. S 35 on N. W. No. 45 on S. RESERVE in N. W. quadrant, with 1 notch on E. and 5 notches on W. edges. From $\frac{1}{2}$ sec. corner between secs. 35 and 36, heretofore described, I run
	North on a random line, north half, between secs. 35 and 36.
40.04	Intersect N. and W. line 21 lks. W. of corner of
39.99	secs. 25, 26, 35 and 36, which is a sandstone 5x6x10 ins. above ground, marked and witnessed as described by the Gen. Land Office. To further establish corner, I take: An aspen, 6 ins. diam., bears N. 85°20' E., 99 lks. dist., marked T 12 N R 4 E S 25 B T
	Thence I run
	S. 0°18' W. on a true line, north half, between secs. 35 and 36. Descend S. E. slope through prairie.
20.00	Dry drain, course E.
33.00	Begin descent over E. slope.
39.99	$\frac{1}{2}$ sec. corner heretofore described. Land, gradually sloping. Soil, 4th rate. No timber. Formation, sandstone.
	From corner of secs. 25, 26, 35 and 36, T. 12 N., R. 4 E., heretofore described, I run
	East on a random line, west half, between secs. 25 and 36.
40.15	Intersect N. and E. line, 13 lks. E. of $\frac{1}{2}$ sec. corner, which is a sandstone 5x6x8 ins. above ground, marked and witnessed as described by the General Land Office.
	Thence I run
	N. 89°49' W. on a true line, west half, between secs. 25 and 36. Descend W. slope through prairie, some scattering aspen brush.
23.65	Dry drain, course E. Ascend E. slope.
25.25	Road bears N. and S.
25.45	Set Boundary Post No. 47, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft.

LOGAN FOREST RESERVE BOUNDARY.

T. 11 N., R. 4 E.

- Chains. in the ground, for forest reserve boundary line post, marked on cap:
No. 47 on S.
RESERVE in N. E. and N. W. quadrants.
- 40.09 Set Boundary Post No. 46, which is an iron post, with brass cap, 3 ft. in the ground, for witness corner to corner of secs. 25, 26, 35 and 36, marked on cap:
T 12 N S 25 W C on N. E.
R 4 E S 36 on S. E.,
S 35 on S. W.
S 26 on N. W.
No. 46 on S.
RESERVE in N. E., S. W. and N. W. quadrants, with 1 notch on E. and 1 notch on S. edges.
- 40.15 Corner of secs. 25, 26, 35 and 36, heretofore described.
From $\frac{1}{2}$ sec. corner between secs. 25 and 26, heretofore described,
I run on a random line, east half, between secs. 25 and 36.
- 39.60 Intersect Township line 130 lks. N. of corner of secs. 25, 30, 31 and 36, which is a sandstone 6x8x10 ins. above ground, marked and witnessed as described by the Gen. Land Office. To further establish corner I take bearing trees as follows:
An aspen, 6 ins. diam., bears N. 50°10' E., 12 lks. dist., marked T 12 N R 5 W S 30 B T
An aspen, 6 ins. diam., bears N. 71°20' W., 22 lks. dist., marked T 12 N R 4 E S 25 B T
Thence I run
N. 88°08' E. on a true line, east half, between secs. 25 and 36. Ascend N. E. slope through willow, aspen and bear brush.
- 22.00 Top of ridge, bears N. and S., 150 ft. above corner; leave brush, bears E. and W.; descend E. slope through prairie.
- 39.60 $\frac{1}{2}$ sec. corner heretofore described, 250 ft. below top of ridge.
Land, mountainous.
Soil, 4th rate.
No timber; willow, aspen and bear brush.
Formation, sandstone.
- September 26, 1904.
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- September 27: At corner of secs. 25, 30, 31 and 36, T. 12 N., R. 4 and 5 E., heretofore described, at 9 a.m., l.m.t., I set off 1°36' E. on the declination arc and 41°44' on the latitude arc, and determine a true meridian with the solar.
Thence I run
N. on a random line, south half, between secs. 25 and 30.
- 40.28 Intersect T. and N. line 35 lks. E. of $\frac{1}{2}$ sec. corner, which is a sandstone 5x6x7 ins. above ground, marked and witnessed as described by the General Land office. To further establish corner:
An aspen, 8 ins. diam., bears N. 28°30' W., 30 lks. dist., marked $\frac{1}{2}$ S 25 E T
An aspen, 6 ins. diam., bears N. 60°30' E., 33 lks. dist., marked $\frac{1}{2}$ S 30 E T
Thence I run
S. 0°30' E. on a true line south half between secs. 25 and 30; descend south slope through prairie.
- 10.00 Leave prairie, bears N. W. and S. E.; enter aspen.
12.00 Drain, course S. E.; thence along E. slope.
25.00 Top of spur bears E. W. and S. E.; descend S.E. slope.

LOGAN FOREST RESERVE BOUNDARY.

T. 12 N., Rs. 4 and 5 E.

Chains.

27.78

40.22

Drain, course T.; ascend N. slope.
Set Boundary Post No. 48, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 25, 30, 31 and 36, marked on cap:
T 12 N S 30 W C on N. E.
R 5 E S 31 on S. E.
S 36 on S. W.
R 4 E S 25 in N. W.
No. 48 on S.
RESERVE in N. W. quadrant, with 1 notch on S. and 5 notches on N. edges.

40.26

Corner of secs. 25, 30, 31 and 36, heretofore described, 200 ft. above drain.
At $\frac{1}{2}$ sec. corner between secs. 25 and 30, heretofore described, I set off $1^{\circ}39'$ S. on the declination arc, and at $11^{\text{h}}54^{\text{m}}$ observe the sun on the meridian. The resulting latitude is $41^{\circ}44'$.

Thence I run

North on a random line between secs. 25 and 30, north half.

40.02

Intersect E. and W. line 2 lks. E. of corner of secs. 19, 24, 25 and 30, which is a very small stone broken in half in a very small mound of stone. I therefore proceed to reestablish true point by setting at same point Boundary Post No. 49, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for corner of secs. 19, 24, 25 and 30, marked on cap:
T 12 N S 19 on N. E.
R 5 E S 30 on S. E.
S 25 on S. W.
R 4 E S 24 on N. W.
No. 49 on S.
RESERVE in S. W. and N. W. quadrants, with 2 notches on S. and 4 notches on N. edges, from which:
An aspen, 8 ins. diam., bears N. 60° E., 10 lks. dist., marked T 12 N R 5 E S 19 B T
An aspen, 4 ins. diam., bears S. 10° E., 20 lks. dist., marked T 12 N R 5 E S 30 B T
An aspen, 5 ins. diam., bears S. $30^{\circ}30'$ W., 71 lks. dist., marked T 12 N R 4 E S 25 B T
An aspen, 5 ins. diam., bears N. $21^{\circ}30'$ W., 47 lks. dist., marked T 12 N R 4 E S 24 B T

Thence I run

S. $0^{\circ}02'$ E. on a true line, north half, between secs. 25 and 30; along east slope, through aspen, willow and bear brush; some scattering fir timber.

6.00

30.00

40.02

Begin descent over S. slope.

Dry drain, course T.; thence along E. slope.

$\frac{1}{2}$ sec. corner heretofore described, 100 ft. below corner of secs. 19, 24, 25 and 30.

Land, mountainous.

Soil, 4th rate.

Timber, fir, willow, aspen and bear brush.

Formation, lime and sandstone.

39.87

From corner of secs. 19, 24, 25 and 30, heretofore described, I run

North on a random line, south half, between secs. 19 and 24.

Intersect E. and W. line 6 lks. E. of $\frac{1}{2}$ sec. corner, which is a sandstone $4 \times 6 \times 8$ ins. above ground, marked and witnessed as described by the Gen. Land Office. To further establish corner I take bearing trees as follows:

An aspen, 6 ins. diam., bears N. $40^{\circ}50'$ E., 73

LOGAN FOREST RESERVE BOUNDARY.

T. 12 N., Rs. 4 and 5 E.

Chains. lks. dist., marked $\frac{1}{2}$ S 19 B T
A fir, 9 ins. diam., bears E. $16^{\circ}30'$ W., 73
lks. dist., marked $\frac{1}{2}$ S 24 B T

Thence I run
S. $0^{\circ}05'$ E. on a true line, south half, between
secs. 19 and 24; descend south slope through
scattering spruce and fir timber and aspen brush.
Changes to E. slope.

10.00 Dim road, bears E. E. and S. W.
11.87 Dry drain, course E.; ascend E. W. slope.
12.37 Top of ridge, bears E. and W. Descend S. slope.
18.00 Dry drain, course E. E. Ascend E. slope.
21.87 Top of ascent, 200 ft. above drain. Thence along
36.00 E. slope.
39.87 Corner of secs. 19, 24, 25 and 30, heretofore described.

September 27, 1904.
September 28: At $\frac{1}{2}$ sec. corner between secs. 19
and 24, heretofore described, at 1 P.M., l.m.t.,
I set off $2^{\circ}05'$ S. on the declination arc and $41^{\circ}45'$
E. on the latitude arc and determine a true mer-
idian with the solar.

Thence I run
North on a random line, north half, between secs.
19 and 24.

40.16 Intersect E. and W. line 8 lks. E. of corner of
secs. 13, 18, 19 and 24, which is a sandstone
6x8x8 ins. above ground marked and witnessed as
as described by the Gen. Land Office. To fur-
ther establish corner I take bearing trees as
follows:
An aspen, 8 ins. diam., bears E. $61^{\circ}30'$ E., 12
lks. dist., marked T 12 E R 5 F S 18 F T
An aspen, 8 ins. diam., bears S. 63° E., 32
lks. dist., marked T 12 E R 5 E S 19 B T
An aspen, 6 ins. diam., bears S. 44° W., 28
lks. dist., marked T 12 W R 4 E S 24 B T
An aspen, 6 ins. diam., bears E. 10° W., 39
lks. dist., marked T 12 E R 4 E S 13 B T

Thence I run
S. $0^{\circ}07'$ E. on a true line, north half, between
secs. 19 and 24; ascend E. E. slope through aspen
and bear brush.

.06 Set Boundary Post No. 50, which is an iron post, with
brass cap, 4 ft. long, 4 ins. in diam., 3 ft. in
the ground for witness corner to corner of secs.
13, 18, 19 and 24, marked on cap:
T 12 E S 18 W C on E. E.
R 5 E S 19 on S. E.
S 24 on S. W.
R 4 E S 13 on E. W.
No. 50 on S.
RESERVE in S. W. and E. W. quadrants, with 3
notches on S. and 3 notches on E. edges.

13.00 Leave brush, bears E. and W.; enter prairie.
14.00 Top of ridge, bears E. and W.; 150 ft. above drain;
descend E. slope.
20.00 Enter aspen, bears E. and W.; leave prairie.
20.50 Dry drain, course S. E., 150 ft. below top of ridge;
ascend E. E. slope, through scattering spruce and
fir.

40.16 $\frac{1}{2}$ sec. corner heretofore described.
Land, mountainous.
Soil, 4th rate.
Timber, spruce and fir, aspen brush.
Formation, limestone.

LOGAN FOREST RESERVE BOUNDARY.

T. 12 N., Rs. 4 and 5 E.

Chains.	
40.00	From corner of secs. 13, 16, 19 and 24, I run North on a random line between secs. 13 and 16.
80.00	Find no trace of $\frac{1}{2}$ sec. corner; set temporary and continue north.
120.00	Find no trace of corner of secs. 7, 12, 13 and 18; set temporary.
160.00	Find no trace of $\frac{1}{2}$ sec. corner. Set temporary.
200.00	Find no trace of corner of secs. 1, 6, 7 and 12. Set temporary.
250.90	Find no trace of $\frac{1}{2}$ sec. corner; set temporary.
	Intersect Third Standard Parallel N. 5.09 chs. E. of standard corner of T. 13 N., Rs. 4 and 5 E., which is a sandstone 3x8x8 ins. above ground, marked and witnessed as described by the Gen. Land Office. Find no trace of closing corner of T. 12 N., Rs. 4 and 5 E.
	Therefore I set Boundary Post No. 54, which is an iron post, with brass cap, 4 ft. long, 4 ins. in diam., 3 ft. in the ground, for closing corner to T. 12 N., Rs. 4 and 5 E., marked on cap: R 5 E S 6 on C. E. T 12 N R 4 E S 1 on S. W. No. 54 C C on S. RESERVE in S. W. quadrant, with 6 notches on E., S. and W. edges, from which: An aspen, 4 ins. diam., bears S. 80° E., 55 lks. dist., marked C C T 12 N R 5 E S 6 R T September 28, 1904.
	October 1: At closing corner east boundary T. 12 N., R. 4 E., heretofore described, at 10 a.m., l.m.t., I set off 3°11' S. on the declination arc and 41°48' on the latitude arc and determine a true meridian with the solar.
	Thence I run S. on a true line between secs. 1 and 6; descend S. slope, through scattering aspen.
12.20	Dry drain, course E., 200 ft. below C.C. At this point enter scattering spruce and fir and thick aspen; ascend E. slope.
16.50	Top of ridge, bears E. and W., 50 ft. above drain; descend S. E. slope.
22.40	Dry drain, course N. E. Ascend N. W. slope.
31.00	Top of 150-foot ascent; descend S. slope.
39.40	Dry drain, course S. E.; ascend N. slope.
48.00	Top of ridge, bears E. and W.; descend S. slope.
50.40	Dry drain, course E.
50.90	Set a granite stone 18x12x6 ins., 12 ins. in the ground for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face, from which: An aspen, 8 ins. diam., bears S. 28° E., 76 lks. dist., marked $\frac{1}{2}$ S 6 R T An aspen, 9 ins. diam., bears E. 70°30' W., 64 lks. dist., marked $\frac{1}{2}$ S 1 R T Ascend N. E. slope. At this point set off 3°13' S. on the declination arc and 11°54 ^m observe the sun on the meridian and obtain a reading of 41°47'.
	Thence I continue South on a true line between secs. 1 and 6.
72.00	Top of ridge, bears E. and W., 100 ft. above $\frac{1}{2}$ sec. corner; descend S. E. slope.
74.50	Leave thicket, bears E. and W.; continue through scattering timber and aspen and bear brush.
88.10	Dry drain, course E., 200 ft. below top of ridge. Ascend N. E. slope.
90.90	Set Boundary Post 53, which is an iron post with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for corner of secs. 1, 6, 7 and 12, marked on cap:

LOGAN FOREST RESERVE BOUNDARY.

T. 12 N., Rs. 4 and 5 E.

Chains.

T 12 N S 6 on N. E.
R 5 E S 7 on S. E.
S 12 on S. W.
R 4 E S 1 on N. W.

No. 53 on S.

RESERVE in S. W. and N. W. quadrants, with 5 notches on S. and 1 notch on N. edges; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of corner, from which

A spruce, 15 ins. diam., bears N. $34^{\circ}15'$ W.,
273 lks. dist., marked T 12 N R 4 E S 1
B T

Land, mountainous.

Soil, 4th rate.

Timber, spruce and fir; aspen and bear brush.

Formation, limestone.

South between secs. 7 and 12, descend gradual S.E. slope, through scattering spruce and fir timber, and aspen brush.

12.00 Dry drain, course E. E.; ascend N. slope.

30.00 Top of ridge, bears E. and W., 150 ft. above drain, descend S. slope.

40.00 Set a sundstone $18 \times 10 \times 8$ ins., 12 ins. in the ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face, from which:

An aspen, 4 ins. diam., bears N. $39^{\circ}30'$ E., 50 lks. dist., marked $\frac{1}{4}$ S 12 B T

An aspen, 8 ins. diam., bears S. $26^{\circ}15'$ W., 50 lks. dist., marked $\frac{1}{4}$ S 7 B T

October 1, 1904.

October 2: At the $\frac{1}{2}$ sec. corner heretofore described, at 9 a.m., l.m.t., set off $3^{\circ}32'$ S. on the declination arc and $41^{\circ}47'$ on the latitude arc, and determine a true meridian with the solar.

Thence I run

40.20 South between secs. 7 and 12. Descend S.E. slope.

Dry drain, course E. Ascend N. slope; top of 150 foot ascent; thence along E. slope.

74.00 Begin descent over S. E. slope.

80.00 Set Boundary Post 52, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for corner of secs. 7, 12, 13 and 18, marked on cap:

T 12 N S 7 on N. E.

R 5 E S 18 on S. E.

S 13 on S. W.

R 4 E S 12 on N. W.

No. 52 on S.

RESERVE in S. W. and N. W. quadrants, with 4 notches on S. and 2 notches on N. edges, from which:

An aspen, 3 ins. diam., bears N. 35° E., 30 lks. dist., marked T 12 N R 5 E S 7 B T

A fir, 4 ins. diam., bears S. $41^{\circ}45'$ E., 116 lks. dist., marked T 12 N R 5 E S 18 B T

An aspen, 8 ins. diam., bears S. $40^{\circ}30'$ E., 74 lks. dist., marked T 12 N R 4 E S 13 B T

An aspen, 5 ins. diam., bears N. 59° W., 36 lks. dist., marked T 12 N R 4 E S 12 B T

Land, mountainous.

Soil, 4th rate.

Timber, spruce and fir; aspen undergrowth.

Formation, limestone.

LOGAN FOREST RESERVE BOUNDARY.

T. 12 N., Rs. 4 and 5 E.

- Chains. South between secs. 13 and 18; descend S. slope through scattering timber, spruce, fir & aspen.
 .40 Drain, course E. Ascend N. slope.
 17.00 Top of ridge, bears E. and W.; descend S. slope.
 20.00 Dry drain, course E. Ascend N. E. slope.
 29.00 Top of ridge, bears N. 80° W. and S. 80° E.
 Descend S. slope.
 34.90 Dry drain, course E., 150 ft. below top of ridge.
 35.03 Set Boundary Post No. 51, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for forest reserve boundary line post, marked on cap:
 No. 51 on S.
 RESERVE in S. W. and N. W. quadrants.
 35.18 Road bears E. and W. Ascend N. slope.
 40.00 Set a granite stone 18x10x8 ins., 12 ins. in the ground for $\frac{1}{2}$ sec. corner marked $\frac{1}{2}$ on W. face, from which:
 An aspen, 4 ins. diam., bears N. 39°30' E., 9 lks. dist., marked $\frac{1}{2}$ S 18 B T
 An aspen, 4 ins. diam., bears N. 52°15' W., 5 lks. dist., marked $\frac{1}{2}$ S 13 B T
 At this point I set off 3°36' S. on declination arc and at 11⁴⁵^{AM} observe the sun on the meridian. The resulting latitude is 41°46'.
 Thence I run
 South between secs. 13 and 18; ascend N. E. slope through dense thicket of bear brush and aspen, some scattering spruce and fir.
 65.00 Top of ridge, bears E. and W., 250 ft. above $\frac{1}{2}$ sec. corner. Leave thicket, bears E. and W.
 Descend S. slope, through scattering aspen.
 77.50 Dry drain, course E., 200 ft. below top of ridge; ascend N. slope.
 80.00 Corner of secs. 13, 18, 19 and 24, heretofore described.
 Land, mountainous.
 Soil, 4th rate.
 Timber, young spruce and fir; aspen and bear brush.
 Formation, limestone.

October 2, 1904.

October 4: At 8 a.m., l.m.t., at closing township corner T. 12 N., R. 4 E., heretofore described, I set off 4°18' S. on declination arc and 41°48' on latitude arc and determine a true meridian with the solar.

Thence I run

West on Third Standard Parallel North, along south boundary of sec. 31; descend gradual W. slope, through prairie almost covered with sage brush.

- 5.03 Set Boundary Post No. 55, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to standard corner of T. 13 N., R. 4 E., heretofore described, marked on cap:

T 13 N R 5 E S 31 W.C on N. E.

R 4 E S 36 on N. W.

No. 55 on S.

RESERVE in S.E., S.W. and N.W. quadrants, with 6 notches on E., W. and N. edges.

- 5.09 Standard corner of T. 13 N., R. 4 E., heretofore described.

From standard corner of T. 13 N., R. 4 E., heretofore described, I run

North on a random line, south half, between secs. 31 and 36.

LOGAN FOREST RESERVE BOUNDARY.

East Bdy. T. 13 N., R. 4 E.

Chains.	
40.08	Intersect E. and W. line 46 lks. W. of $\frac{1}{2}$ sec. corner, which is a tree corner, an aspen, 5 ins. diam., marked and witnessed as described by the General Land Office. Thence I run S. $0^{\circ}39'$ W. on a true line, south half, between secs. 31 and 36; descend S. E. slope, through aspen brush.
6.26	Set Boundary Post No. 56, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for Forest Reserve Boundary line post, marked on cap: No. 56 on E. RESERVE in S. W. and N. W. quadrants.
6.38	Cache Valley and Bear Lake road, bears N. E. and S. W.
8.58	Dry drain, course N. E., 50 ft. below $\frac{1}{2}$ sec. corner; ascend N. W. slope.
16.00	Leave aspen, bears E. and W.
25.00	Top of 350-foot ascent, enter prairie; thence along W. slope.
40.08	Standard corner of T. 13 N., R. 4 E., heretofore described. Thence I run from the $\frac{1}{2}$ corner between secs. 31 and 36, North on a random line, north half, between secs. 31 and 36.
40.14	Intersect E. and W. line 74 lks. E. of corner of secs. 25, 30, 31 and 36, which is a granite stone 8x10x8 ins. above ground, marked and witnessed as described by the Gen. Land Office. To further establish corner bearing trees as follows: An aspen, 8 ins. diam., bears S. $31^{\circ}15'$ E., 73 lks. dist., marked T 13 N R 5 E S 31 B T An aspen, 8 ins. diam., bears S. 44° W., 93 lks. dist., marked T 13 N R 4 E S 36 B T An aspen, 4 ins. diam., bears E. $60^{\circ}10'$ W., 63 lks. dist., marked T 13 N R 4 E S 25 B T No tree in sec. 30. I set off $4^{\circ}23'$ S. on the declination arc and at 11^h56^m observe the sun on meridian. The resulting latitude is $41^{\circ}49'$. Thence I run S. $1^{\circ}03'$ E. on a true line, north half, between secs. 31 and 36, along east slope, through aspen.
.06	Set Boundary Post No. 57, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 25, 30, 31 and 36, marked on cap: T 13 N S 30 W C on N. E. R 5 E S 31 on S. E. S 36 on S. W. R 4 E S 25 on N. W. No. 57 on E. RESERVE in S. W. and N. W. quadrants, with 1 notch on S. and 5 notches on N. edges.
16.50	Leave aspen, bears E. and W.; enter prairie.
20.00	Begin descent over S. slope.
30.34	Dry drain, course -. Leave prairie, enter aspen, bears E. and W., foot of 250-foot descent; ascend N. E. slope.
35.00	Top of ridge, bears E. and W., 50 ft. above drain.
40.14	$\frac{1}{2}$ sec. corner, heretofore described, 50 ft. below top of ridge. Land, mountainous. Soil, 4th rate. Timber none; aspen brush. Formation, granite.

LOGAN FOREST RESERVE BOUNDARY.

East Bdy. T. 13 N., R. 4 E.

Chains. From the corner of secs. 25, 30, 31 and 36,
Thence I run
North on a random line, south half, between secs.
25 and 30.

40.00 Find no trace of $\frac{1}{4}$ sec. corner; set temporary and
continue random north.

79.80 Intersect E. and W. line 108 lks. W. of corner of
secs. 19, 24, 25 and 30, which is a sandstone,
4x8x8 ins. above ground, marked and witnessed as
described by the Gen. Land Office. To further
establish corner:
An aspen, 4 ins. diam., bears N. 26° E., 29
lks. dist., marked T 13 N R 5 E S 19 B T
An aspen, 7 ins. diam., bears S. $69^{\circ}10'$ E., 67
lks. dist., marked T 13 N R 5 E S 30 B T
An aspen, 3 ins. diam., bears S. $16^{\circ}30'$ W., 30
lks. dist., marked T 13 N R 4 E S 25 B T
An aspen, 4 ins. diam., bears N. $48^{\circ}15'$ W., 48
lks. dist., marked T 13 N R 4 E S 24 B T
Thence I run
S. $0^{\circ}46'$ W. on a true line, between secs. 25 and 30;
ascend N. E. slope, through aspen thicket and bear
brush.

10.00 Leave aspen and brush, bears E. and W.

12.00 Top of ridge, bears E. and W., 100 ft. above cor-
ner; descend S. slope through prairie.

24.50 Dry drain, course N. E., 250 ft. below top of ridge.
Ascend N. W. slope.

39.90 Set a sandstone 18x16x14 ins., 12 ins. in ground,
for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face; raise a
mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of
corner.

50.00 Top of ridge, bears N. E. and S. W., 300 ft. above
drain. Descend S. slope.

52.00 Leave prairie, enter aspen, bears E. and W.

68.30 Dim road, bears N. E. and S. W.

79.80 Corner of secs. 25, 30, 31 and 36, heretofore des-
cribed.
Land, mountainous.
Soil, 4th rate.
Formation, granite.
Timber, aspen and bear brush.

October 4, 1904.

October 5: At 8.30 a.m. set off $4^{\circ}42'$ S. on the
declination arc and $41^{\circ}50'$ on the latitude arc
and determine a true meridian with the solar.
Thence I run
North on a random line, south half, between secs.
19 and 24.

40.23 Intersect E. and W. line 35 lks. E. of $\frac{1}{4}$ sec. corner,
which is a sandstone 5x8x6 ins. above ground,
marked and witnessed as described by the Gen. Land
Office. To further establish corner:
An aspen, 6 ins. diam., bears S. $44^{\circ}50'$ E., 17
lks. dist., marked $\frac{1}{4}$ S 19 B T
An aspen, 9 ins. diam., bears N. $38^{\circ}10'$ W., 67
lks. dist., marked $\frac{1}{4}$ S 24 B T
Thence I run
S. $0^{\circ}30'$ E. on a true line, south half, between secs.
19 and 24; ascend N. E. slope, through aspen,
some bear brush.

20.00 Top of ridge, bears E. and W. Descend S. slope.

28.73 Dry drain, course S. E.; thence along E. slope.

28.93 Trail, bears W. and S. E.

40.17 Set Boundary Post No. 58, which is an iron post, with
brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the
ground, for witness corner to corner of secs. 19,

LOGAN FOREST RESERVE BOUNDARY.

East Bdy. T. 13 N., R. 4 E.

Chains.	24, 25 and 30, marked on cap. T 13 N S 19 W C on N. E. R 5 E S 30 on S. E. S 25 on S. W. R 4 E S 24 on N. W. No. 58 on S. RESERVE in S. W. and N. W. quadrants, with 2 notches on E. and 4 notches on N. edges.
40.23	Corner of secs. 19, 24, 25 and 30, heretofore described. Thence I run North on a random line, north half, between secs. 19 and 24.
40.17	Intersect E. and W. line 31 lks. E. of corner of secs. 13, 18, 19 and 24, which is a sandstone 8x10x8 ins. above ground, marked and witnessed as described by the General Land Office. Thence I run S. 0°27' E. on a true line, north half, between secs. 19 and 24; ascend N. slope through prairie.
.06	Set Boundary Post No. 59, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 13, 18, 19 and 24, marked on cap: T 13 N S 18 W C on N. E. R 5 E S 19 on S. E. S 24 on S. W. R 4 E S 13 on E. W. No. 59 on S. RESERVE in S. W. and N. W. quadrants, with 3 notches on S. and N. edges.
6.27	Trail, bears E. W. and S. E.
8.67	Spring drain, 2 lks. wide, 1 in. deep, course E.
15.00	Enter aspen, bears E. W. and S. W. Leave prairie.
30.52	Road, bears E. and W.
40.17	1 sec. corner heretofore described. Land, mountainous. Soil, 4th rate. Timber, none; aspen and bear brush. Formation, limestone.
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	From the corner of secs. 13, 18, 19 and 24, Thence I run North on a random line, south half, between secs. 13 and 18.
39.68	Intersect E. and W. line 13 lks. W. of 1 sec. corner, which is a sandstone 8x8x12 ins. above ground, marked and witnessed as described by the General Land Office. Thence I run S. 0°11' W. on a true line, south half, between secs. 13 and 18, over almost level land, through prairie, some sage and grouse brush.
8.00	Begin descent over S. slope.
21.00	Leave prairie, enter aspen, bears E. and W.
21.88	Spring drain, 6 lks. wide, 2 ins. deep, course E. Foot of 150-foot descent; ascend gradual E.E. slope.
27.00	Leave aspen, bears N. E. and S. W.; enter prairie, some scattering aspen.
39.68	Corner of secs. 13, 18, 19, and 24, heretofore described. From the 1/4 corner between secs. 13 and 18, Thence I run W. on a random line, north half, between secs. 13 and 18.
40.24	Intersect E. and W. line 51 lks. W. of corner of secs. 7, 12, 13 and 18, which is a granite stone 6x8x8 ins. above ground, marked and witnessed as

LOGAN FOREST RESERVE BOUNDARY.

East Bdy. T. 13 N., R. 4 E.

Chains.	described by the General Land Office.
	Thence I run
3.00	S. 0°44' W. on a true line, north half, between
40.24	secs. 13 and 18; ascend E. slope through prairie.
	Changes to gradual E. W. slope.
	$\frac{1}{2}$ sec. corner heretofore described.
	Land, mountainous.
	Soil, 4th rate.
	Timber, none; aspen brush.
	Formation, granite.
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	From the corner of secs. 7, 12, 18 and 13,
	Thence I run
	North on a random line, south half, between secs.
	7 and 12.
40.15	Intersect E. and W. line 65 lks. W. of $\frac{1}{2}$ sec. cor-
	ner, which is a sandstone 6x8x8 ins. above ground,
	marked and witnessed as described by the General
	Land Office.
	Thence I run
	S. 0°56' W. on a true line, south half, between
	secs. 7 and 12. Descend S. E. slope, through
	prairie, some sage brush.
7.15	Road from mountains to Bear Lake, bears N. E. and
	S. W.
12.65	Road bears E. W. and S. E.
13.00	Leave prairie, enter aspen, bears E. and W.
14.45	Dry creek, course N. E., 100 ft. Below $\frac{1}{2}$ sec. cor-
	ner; thence across bottom of creek.
19.15	Road from mountains to Bear Lake, bears E. and W.,
	wood road.
19.50	Begin ascent, over E. E. slope.
38.45	Leave aspen, bears E. and W., enter prairie.
38.65	Road from mountains to Bear Lake, bears E. E. and
	S. W.; top of ridge bears E. E. and S. E., 100
	ft. above drain; thence along E. slope.
40.09	Set Boundary Post No. 60, which is an iron post,
	with brass cap, 4 ft. long, 4 ins. in diam., 3 ft.
	in the ground, for witness corner to corner of
	secs. 7, 12, 13 and 18, marked on cap:
	T 13 N S 7 W C on N. E.
	R 5 E S 18 on S. E.
	S 13 on S. W.
	R 4 E S 12 on N. W.
	No. 60 on S.
	RESERVE in S. W. and N. W. quadrants, with 4 notches
	on S. and 2 notches on E. edges.
40.15	Corner of secs. 7, 12, 13 and 18, heretofore des-
	cribed.
	From the $\frac{1}{2}$ corner between secs. 7 and 13,
	Thence I run
	W. on a random line north half, between secs. 7 and
	12.
40.07	Intersect E. and W. line 26 lks. E. of corner of
	secs. 1, 6, 7 and 12, which is a granite stone,
	6x8x4 ins. above ground, marked and witnessed as
	described by the General Land Office.
	Thence I run
	S. 0°22' E. on a true line, north half, between
	secs. 7 and 12; descend S. E. slope, through
	aspen brush.
21.57	Road from mountains to Bear Lake, bears E. and E.
25.37	Dry drain, course E.
31.50	Leave aspen, bears E. and W.; enter prairie.
40.07	$\frac{1}{2}$ sec. corner heretofore described.
	Land, mountainous.
	Soil, 4th rate.
	Timber, none; aspen brush.

LOGAN FOREST RESERVE BOUNDARY.

East Bdy. T. 13 N., R. 4 E.

Chains. Formation, granite.

I set off 4°46' S. on the declination arc and at 11^h55^m observe the sun on the meridian. The resulting latitude is 41°53', at the corner of secs. 1, 6, 7 and 12.

Thence I run

North on a random line, south half, between secs. 1 and 6.

40.08 Intersect T. and R. line 82 lks. W. of 1 sec. corner, which is a quartzite stone 5x8x8 ins. above ground, marked and witnessed as described by the General Land Office.

Thence I run

S. 1°10' W. on a true line, south half, between secs. 1 and 6, along T. slope, through prairie, some scattering aspen brush.

14.00 Dry drain, course T. Ascend T. slope.

20.00 Ridge, bears T. and R. Descend S. slope.

25.58 Dry drain, course T., 50 ft. below ridge; ascend R. slope.

29.50 Leave prairie, enter aspen, bears E. and T.

35.00 Top of ridge, bears T. and R. Descend S. T. slope.

40.02 Set Boundary Post No. 61, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 1, 6, 7 and 12, marked on cap:

T 13 N. S. 6 E. C. on E. T.

E 5 S. S. 7 on T. T.

S 12 on S. T.

R 4 E. S. 1 on E. T.

No. 61 on S.

RESERVE in S. T. and N. W. quadrants, with 5 notches on T. and 1 notch on E. edges.

40.02 Corner of secs. 1, 6, 7 and 12, heretofore described.

From the 1 corner between secs. 1 and 6,

Thence I run

North on a random line between secs. 1 and 6.

47.73 Corner supposed to be closing corner of T. 13 N., R. 4 and 5 E., which is a sandstone 6x8x10 ins. above ground, marked C C on S., with 6 notches on all four sides, witnessed by mound of stone on east. Corner bears T. 15 lks.

Thence I run

T. 0°11' S. on a true line, north half, between secs. 1 and 6; ascend E. T. slope, through scattering aspen brush.

30.00 Leave brush, bears T. T. and S. T. Enter prairie.

35.37 Set Boundary Post No. 62, which is an iron post, with brass cap, 4 ft. long, 4 ins. in diam., 3 ft. in the ground, for forest reserve boundary line post, marked on cap:

No. 62 on T.

RESERVE in S. T. and N. E. quadrants.

35.73 Road from mountains to Bear Lake, bears E. T. and S. W.

40.00 Top of ridge, bears T. T. and S. T., 100 ft. above corner; descend S. T. slope, through scattering aspen brush.

47.73 1 sec. corner heretofore described.

Land, mountainous.

Soil, 4th rate.

Timber, none; aspen brush.

Formation, granite.

October 5, 1904.

October 8: At 9 a.m., l.m.t., I set off 5°52' S. on the declination arc and 41°54' on the latitude arc

LOGAN FOREST RESERVE BOUNDARY.

East Bdy. T. 13 N., R. 4 E.

Chains. and determine a true meridian with the solar.
Thence from supposed closing corner T. 13 N., R. 4 E.,
I continue North on a true line, between secs. 1 and
6, through scattering aspen along E. slope.
6.02 Intersect S. boundary of T. 14 N., R. 4 E., 2.65
chs. West of $\frac{1}{2}$ sec. corner on south boundary of
sec. 36, which is a granite stone 6x8x8 ins.
above ground, marked and witnessed as described by
the General Land Office.
At intersection set Boundary Post No. 63, which is
an iron post, with brass cap, 4 ft. long, 4 ins.
in diam., 3 ft. in the ground, for forest reserve
boundary line post, marked on cap:
No. 63 on S.
RESERVE in S. W. quadrant.

South Bdy. T. 14 N., R. 4 E.

Thence I run
S. 89°15' W. on a random line, west half, along
south boundary of sec. 36, south boundary T. 14 N.,
R. 4 E.
38.60 Intersect N. and S. line w 23 lks. S. of corner of
secs. 1, 2, 35 and 36, which is a limestone 8x10x24
ins. in mound of stone. I reset corner.
Thence I run
N. 89°35' E. on a true line, west half, between
secs. 1 and 36; ascend W. slope through prairie,
some aspen.
.06 Set Boundary Post No. 64, which is an iron post,
with brass cap, 4 ft. long, 4 ins. diam., 3 ft.
in the ground, for witness corner to corner of
secs. 1, 2, 35 and 36, marked on cap:
T 14 N S 36 W C on E. E.
R 4 E S 1 on S. E.
T 13 N S 2 on S. W.
S 35 on N. W.
No. 64 on S.
RESERVE in S. E. and S. W. quadrants, with 1 notch
on E. and 5 notches on W. edges.
8.00 Top of ridge, bears E. and S. Descend E. slope.
38.60 Boundary Post No. 63, heretofore described, 200
ft. below top of ridge.
Land, mountainous.
Soil, 4th rate.
Timber, none; aspen brush.
Formation, granite.

Thence I run
South 89°15' W. on a random line, east half, be-
tween secs. 2 and 35.
38.50 Intersect N. and S. line 15 lks. N. of $\frac{1}{2}$ sec. cor-
ner, which is a limestone, 18x10x8 ins. in mound of
stone; reset same 12 ins. in ground, from which:
A mahogany, 6 ins. diam., bears N. 66° E., 129
lks. dist., marked $\frac{1}{2}$ S 35 B T
A mahogany, 10 ins. diam., bears S. 43°15' W.,
160 lks. dist., marked S 2 B T
I set off 5°55' S. on declination arc, and at
11^h48^m l.m.t. observe the sun on the meridian.
The resulting latitude is 41°54', which is the
proper latitude.
Thence I run
N. 89°02' E. on a true line, east half, between
secs. 2 and 35; along S. slope, through scatter-
ing mahogany, fir and pine.
12.00 Begin descent over N. E. slope.

LOGAN FOREST RESERVE BOUNDARY.

South Bdy. T. 14 N., R. 4 E.

- Chains.
- 36.50 Drain, course N., 250 ft. descent; ascend W. slope.
- 38.50 Corner of secs. 1, 2, 35 and 36, heretofore described. From the $\frac{1}{2}$ corner between secs. 2 and 35 Thence I run S. $89^{\circ}15'$ W. on a random line, west half, between secs. 2 and 35.
- 39.25 Intersect N. and S. line 15 lks. S. of corner of secs. 2, 3, 34 and 35, which is a limestone $8 \times 10 \times 18$ ins. in small mound of stone. Reestablish corner by setting stone 12 ins. in the ground, from which
- A fir, 18 ins. diam., bears N. $69^{\circ}40'$ E., 12 lks. dist., marked T 14 N R 4 E S 35 B T
 - A spruce, 18 ins. diam., bears S. $12^{\circ}45'$ E., 17 lks. dist., marked T 13 N R 4 E S 2 B T
 - A spruce, 12 ins. diam., bears S. $57^{\circ}05'$ W., 15 lks. dist., marked T 13 N R 4 E S 3 B T
 - A fir, 10 ins. diam., bears N. $56^{\circ}35'$ W., 19 lks. dist., marked T 14 N R 4 E S 34 B T
- Thence I run N. $89^{\circ}28'$ E. on a true line, west half, between secs. 2 and 35; ascend E. $\frac{1}{2}$ slope, through spruce and fir timber.
- .06 Set Boundary Post No. 65, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 2, 3, 34 and 35, marked on cap:
- T 14 N S 35 B C on N. E.
 - R 4 E S 2 on S. E.
 - T 13 N S 3 on S. W.
 - S 34 on N. E.
 - No. 65 on N.
- RESERVE in S. E. and S. W. quadrants, with 2 notches on E. and 4 notches on W. edges.
- 7.00 Top of ridge, bears N. and S. Leave spruce and fir timber, bears N. and S. Descend S. E. slope, through scattering spruce and fir timber, aspen and mahogany brush.
- 31.50 Foot of 15-foot descent. Ascend E. slope.
- 37.75 Top of ridge, bears N. and S. Thence along S. slope.
- 39.25 $\frac{1}{2}$ sec. corner heretofore described. Corner falls at head of small drain, course S.
- Land, mountainous.
- Soil, 4th rate.
- Timber, spruce and fir; aspen brush.
- Formation, limestone.

October 8, 1904.

October 9: Rain.

October 10: At 1 p.m., l.m.t. I set off $6^{\circ}42'$ S. on the declination arc and $41^{\circ}54'$ E. on the latitude arc and determine a true meridian with the solar at the corner of secs. 2, 3, 34 and 35.

Thence I run

S. $89^{\circ}15'$ W. on a random line, east half, between secs. 3 and 34.

40.00 Find no trace of $\frac{1}{2}$ sec. corner; set temporary and continue west.

82.18 Intersect N. and S. line 9 lks. N. of corner of secs. 3, 4, 33 and 34, which is a limestone $4 \times 12 \times 18$ ins. in small mound of stone.

Reestablish corner by setting stone 18 ins. in the ground. Corner stone is properly marked, from which:

- A pine, 28 ins. diam., S. prong of double tree, bears N. 13° E., 107 lks. dist., marked

T 14 N R 4 E S 34 B T

LOGAN FOREST RESERVE BOUNDARY.

South Bay. T. 14 N., R. 4 E.

- Chains. A pine, 38 ins. diam., bears S. 74°50' E., 400
lks. dist., marked T 13 N R 4 E S 3 B T
A fir, 9 ins. diam., bears N. 79°30' W., 437
lks. dist., marked T 14 N R 4 E S 33 B T
No tree taken in S. 4.
Thence I run
N. 89°11' E. on a true line, between secs. 3 and
34; descend N. F. slope through scattering spruce,
pine and fir timber, some aspen brush.
6.69 Dry drain, course S. E.; thence along S. slope.
19.00 Leave scattering timber and aspen, bears N. and S.,
enter prairie.
22.09 Road, bears N. and S.
22.19 Set Boundary Post No. 66, which is an iron post,
with brass cap, 4 ft. long, 4 ins. diam., 3 ft.
in the ground, for forest reserve boundary line
post, marked on cap:
No. 66 on S.
RESERVE in S. E. and S. W. quadrants; 50 ft. below
corner, ascend S. W. slope.
35.00 Top of ridge, bears N. and S. Descend E. slope.
41.09 Set a limestone 6x10x18 ins., 12 ins. in the ground,
for $\frac{1}{4}$ sec. corner marked $\frac{1}{4}$ on N. face; raise a
mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of
corner.
42.17 Dry drain, course S. Ascend W. slope.
46.19 Top of small sharp ridge, bears N. and S.; some
large spruce trees scattered along this ridge
near the top; continue through prairie, descend
E. slope.
52.58 Trail, course N. E. and S. W. Ascend N. W. slope.
57.70 Leave prairie; enter spruce and fir timber, bears
N. E. and S. W.
82.18 Corner of secs. 3, 4, 33 and 34, heretofore des-
cribed, 250 ft. above trail.
Land, mountainous.
Soil, 4th rate.
Timber, spruce, pine and fir; some aspen brush.
Formation, limestone.
October 10, 1904.
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- October 11: At 8 a.m., l.m.t., I set off 6°59' S.
on the declination arc and 41°54' N. on the lati-
tude arc, and determine a true meridian with the
solar.
At the corner of secs. 3, 4, 33 and 34,
Thence I run
S. 89°15' W. on a random line, east half, between
secs. 4 and 33.
41.22 Intersect N. and S. line 9 lks. S. of $\frac{1}{4}$ sec. corner,
which is a limestone 5x7x20 ins. in small mound of
stone.
Reestablish corner by setting stone 15 ins. in the
ground, which is properly marked, from which:
A pine, 6 ins. diam., bears N. 5°05' E., 387
lks. dist., marked $\frac{1}{4}$ S 33 B T
A pine, 10 ins. diam., bears S. 32°30' W., 180
lks. dist., marked $\frac{1}{4}$ S 4 B T
Thence I run
N. 89°23' E. on a true line, east half, between
secs. 4 and 33; ascend W. slope, through pine,
spruce and fir timber.
1.00 Top of ridge, bears E. and S. Descend E. slope.
8.00 Changes to S. slope.
25.00 Begin descent over S. E. slope, some scattering aspen.
41.16 Set Boundary Post No. 67, which is an iron post,
with brass cap, 4 ft. long, 4 ins. diam., 3 ft.
in the ground, for witness corner to corner of

South Bdy. T. 14 N., R. 4 E.

Chains	secs. 3, 4, 33 and 34, marked on cap: T 14 N S 34 W C on N. E. R 4 E S 3 on S. E. T 13 N S 4 on S. W. S 33 on N. W. No. 67 on S. RESERVE in S. E. and S. W. quadrants, with 3 notches on E. and 3 notches on W. edges.
41.22	Corner of secs. 3, 4, 33 and 34, heretofore described, 450 ft. below $\frac{1}{2}$ sec. corner. From the $\frac{1}{2}$ corner between secs. 4 and 33 Thence I run S. 89°15' W. on a random line, west half, between secs. 4 and 33.
40.42	Intersect N. and S. line 2 lks. N. of corner of secs. 4, 5, 32 and 33, which is a limestone 3x12x18 ins. in mound of stone. Reestablish corner by setting stone 18 ins. in the ground, which is properly marked, from which: A pine, 8 ins. diam., bears N. 48°50' E., 46 lks. dist., marked T 14 N R 4 E S 33 B T A pine, 14 ins. diam., bears S. 55° E., 48 lks. dist., marked T 13 N R 4 E S 4 B T A pine, 16 ins. diam., bears S. 28°20' W., 52 lks. dist., marked T 13 N R 4 E S 5 B T A pine, 6 ins. diam., bears N. 56°35' W., 35 lks. dist., marked T 14 N R 4 E S 32 B T Thence I run N. 89°13' E. on a true line, west half, between secs. 4 and 33; descend N. E. slope through pine, spruce and fir timber.
.06	Set Boundary Post No. 68, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 4, 5, 32 and 33, marked on cap: T 14 N S 33 W C on N. E. R 4 E S 4 on S. E. T 13 N S 5 on S. W. S 32 on N. W. No. 68 on S. RESERVE in S. E. and S. W. quadrants, with 4 notches on E. and 2 notches on W. edges.
13.00	Dry drain, course S. E., 50 ft. below corner; ascend S. W. slope.
40.42	$\frac{1}{2}$ sec. corner heretofore described, 700 ft. above drain. Land, mountainous. Soil, 4th rate. Timber, pine, spruce and fir. Formation, limestone.
<hr/>	
	At corner of secs. 4, 5, 32 and 33, south bdy. T. 14 N., R. 4 E., I set off 7°04' S. on the declination arc and at 11 ^h 53 ^m observe the sun on the meridian. The resulting latitude is 41°54'. Thence I run S. 89°15' W. on a random line, east half, between secs. 5 and 32.
40.00	Find no trace of $\frac{1}{2}$ sec. corner; set temporary and continue S. 89°15' W.
81.60	Intersect N. and S. line 17 lks. N. of corner of secs. 5, 6, 31 and 32, which is a limestone, 18x10x8 ins. in small mound of stone. Reestablish corner by setting stone, which is properly marked, in ground, from which A pine, 8 ins. diam., bears N. 56° W., 180 lks. dist., marked T 14 N R 4 E S 31 B T No other trees taken. Thence I run

LOGAN FOREST RESERVE BOUNDARY.

South Bay. T. 14 N., R. 4 E.

- Chains. N. 89°08'E on a true line, between secs. 5 and 32, over rolling broken ground, through scattering timber.
- .06 Set Boundary Post No. 69, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 5, 6, 31 and 32, marked on cap:
T 14 N S 32 W C on N. E.
R 4 E S 5 on S. E.
T 13 N S 6 on S. W.
S 31 on N. W.
No. 69 on S.
RESERVE in S. E. and S. W. quadrants, with 5 notches on E. and 1 notch on W. edges.
- 11.10 Dry drain, course S. Ascend N. W. slope.
- 15.00 Enter heavy spruce and fir timber, bears N. and S.
- 22.50 Top of ridge, bears N. and S., 150 ft. above drain; thence along N. slope.
- 40.80 Set a limestone 22x10x8 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on N. face, from which
A pine, 20 ins. diam., bears S. 68°15' E., 186 lks. dist., marked $\frac{1}{4}$ S 5 B T
A pine, 24 ins. diam., bears N. 49°35' W., 114 lks. dist., marked $\frac{1}{4}$ S 32 B T
Thence descend N. E. slope.
- 47.35 Dry drain, course N. W. Ascend N. W. slope.
- 53.60 Leave timber, bears N. and S., enter prairie.
- 66.00 Top of ridge, bears N. and S., 150 ft. above drain; descend N. E. slope.
- 73.50 Leave prairie, enter timber, bears N. and S., mostly burned timber.
- 81.60 Corner of secs. 4, 5, 32 and 33, heretofore described.
Land, mountainous.
Soil, 4th rate.
Timber, pine, spruce and fir.
Formation, limestone.

October 11, 1904.

- October 12: Snow and rain.
October 13: Snow and rain.
October 14: Move camp.
October 15: At 9.30 a.m., l.m.t., I set off 8°30' S. on the declination arc and 41°54' N. on the latitude arc and determine a true meridian with the solar, at the corner of secs. 5, 6, 31 and 32.
Thence I run
S. 89°15' W. on a random line, east half, between secs. 6 and 31.
39.74 Intersect N. and S. line, 25 lks. S. of $\frac{1}{4}$ sec. corner, which is a limestone 15x10x8 ins. in mound of stone; stone is properly marked.
Reestablish corner by setting stone in ground, from which
A pine, 5 ins. diam., bears N. 28° E., 18 lks. dist., marked $\frac{1}{4}$ S 31 B T
A pine, 8 ins. diam., bears S. 25° E., 27 lks. dist., marked $\frac{1}{4}$ S 6 B T
From the $\frac{1}{4}$ corner between secs. 6 and 31
Thence I run
N. 89°36' E. on a true line, east half, between secs. 6 and 31; ascend N. W. slope, through pine, spruce and fir timber.
- 19.00 Top of ridge, bears N. E. and S. W., 450 ft. above $\frac{1}{4}$ sec. corner. Descend S. E. slope.
- 34.74 Dry drain, course S. E.
- 35.50 Leave timber, bears N. and S., continue through scattering timber.

LOGAN FOREST RESERVE BOUNDARY.

South Edy. T. 14 N., R. 4 E.

Chains.

39.74

Corner of secs. 5, 6, 31 and 32, heretofore described.

11.45 cloudy, work discontinued.

October 15, 1904.

October 16: Sunday.

October 17: Snow.

October 18: At 10 a.m. 1 m.t. I set off 9°37' S. on declination arc and determine a true meridian with the solar at the $\frac{1}{2}$ corner between secs. 6 and 31.

Thence I run

S. 89°15' W. on a random line, west half, between secs. 6 and 31.

40.00

Find no trace of corner of Tps. 13 and 14 N., Rs. 3 and 4 E.

Set temporary corner.

October 20: I find temporary corner to be 1.85 chs. west and 0.09 chs. south of corner of Tps. 13 and 14 N., Rs. 3 and 4 E., established October 19th.

From said permanent township corner

Thence I run

N. 89°23' E. on a true line, between secs. 6 and 31, west half, south boundary T. 14 N., R. 4 E. Ascend steep W. slope through scattering timber.

7.00

Enter heavy timber, bears N. and S.

16.00

Changes to E. W. slope.

31.90

Side hill dry drain, course N. W.

38.15

$\frac{1}{2}$ sec. corner between secs. 31 and 6, heretofore described.

Land, mountainous.

Soil, 4th rate.

Timber, pine, spruce and fir.

Formation, limestone.

At the corner of Tps. 13 and 14 N., Rs. 3 and 4 E., established October 19th heretofore described.

Thence I run

West on a random line on east half, between secs. 36 and 1.

47.19

Intersect N. and S. line 5.52 chs. N. of $\frac{1}{2}$ sec. corner on south boundary of sec. 36, which is a limestone 6x8x8 ins. above ground, marked and witnessed as described by the Gen. Land Office. To further establish corner I mark

An aspen, 6 ins. diam., bears S. 80°50' E., 68 lks. dist., marked $\frac{1}{2}$ S 1 B T

An aspen, 4 ins. diam., bears N. 87°10' W., 41 lks. dist., marked $\frac{1}{2}$ S 36 B T

At $\frac{1}{2}$ sec. corner south boundary sec. 36, south boundary T. 14 N., R. 3 E., I set off 10.23' S. on the declination arc and at 11⁵⁸ m. l.m.t., observe the sun on the meridian. The resulting latitude is 41°54'.

Thence I run

N. 83°19' E. on a true line between secs. 1 and 36. Ascend E. W. slope through aspen.

10.00

Changes to broken W. slope.

40.50

Leave aspen, bears N. and S.; enter prairie.

47.19

Corner of Tps. 13 and 14 E., Rs. 3 and 4 E., heretofore described, 600 ft. above $\frac{1}{2}$ sec. corner.

October 19: At $\frac{1}{2}$ sec. corner between secs. 1 and 6, east boundary T. 13 N., R. 3 E., at 9 a.m., l.m.t., I set off 9°58' S. on declination arc and 41°53' N. on latitude arc, and determine a true meridian with the solar.

Thence I run

North on a random line, between secs. 1 and 6.

LOGAN FOREST RESERVE BOUNDARY.

East Bdy. T. 13 N., R. 3 E.

Chains.	
40.00	Find no trace of township corner.
80.00	Find no trace of $\frac{1}{4}$ sec. corner between secs. 31 and 36, T. 14 N., R. 3 E. Set temporary, continue random N.
117.87	Intersect E. and W. line 1.96 chs. W. of corner of secs. 25, 30, 31 and 36, east boundary T. 14 N., R 3 E., which is a limestone 6x6x10 ins. above ground, marked and witnessed as described by the General Land Office. Set off 10°01' S. on the declination arc and at 11h58m observe the sun on the meridian. The resulting latitude is 41°55'. Thence I run S. 0°57' W. on a true line between secs. 31 and 36. Descend S. E. slope through scattering aspen.
8.00	Road, bears E. and W., 50 ft. below corner; ascend N. W. slope.
10.00	Enter aspen thicket, bears E. and W.
27.50	Top of ridge, bears E. and W., 150 ft. above road. Descend S. W. slope.
32.11	Drain, course N. W., 100 ft. below top of ridge; ascend N. W. slope.
39.29	Set a granite 15x10x6 ins., 10 ins. in ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face, from which: A maple, 4 ins. diam., bears N. 27°45' E., 20 lks. dist., marked $\frac{1}{4}$ S 31 B T An aspen, 8 ins. diam., bears S. 36°30' W., 144 lks. dist., marked $\frac{1}{4}$ S 36 B T
44.50	Top of spur, bears E. and W., 100 ft. above drain; thence along W. slope.
47.66	Dry drain, course W. Ascend N. W. slope.
49.00	Leave aspen, bears E. and W.; enter prairie.
78.58	Set iron U. S. Forest Reserve Boundary Post No. 70, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in ground, for corner of Tps. 13 and 14 N., Rs. 3 and 4 E., marked on cap: T 14 N S 31 W C on N. E. R 4 E S 6 on S. E. T 13 N S 1 on S. W. R 3 E S 36 on N. W. No. 70 on S. RESERVE in S.E. and S.W. quadrants, with 6 notches on E., S., W. and N. edges; raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of corner, from which: A pine, 8 ins. diam., bears N. 31°45' E., 284 lks. dist., marked T 14 N R 4 E S 31 B T
78.67	Intersect random line on W. half of S. bdy. of sec. 31, 1.85 chs. E. of temporary corner set for Tps. 13 and 14 N., Rs. 3 and 4 E., set October 18. Land, mountainous. Soil, 4th rate. No timber, aspen brush. Formation, limestone.
	October 19, 1904.
	October 20: At 9.30 a.m., l.m.t., I set off 10°20' S. on the declination arc and 41°54' N. on the latitude arc and determine a true meridian with the solar, at the corner of Tps. 13 and 14 N., Rs. 3 and 4 E. Thence I run S. 57' W. on a true line between secs. 1 and 6, east boundary T. 13 N., R. 3 E.; along west slope through prairie, some scattering timber.
12.00	Begin descent over S. W. slope.
17.50	Dry drain, course N. W., foot of 150-foot descent. Ascend N.W. slope, through heavy pine, spruce and fir timber, some mahogany.

LOGAN FOREST RESERVE BOUNDARY.

East Bdy. T. 13 N., R. 3 E.

Chains.
 23.00 Top of ridge, bears E. and W., 100 ft. above drain;
 descend S. W. slope.
 27.00 Dry drain, course W., 100 ft. below top of ridge;
 ascend E. W. slope.
 37.50 Limestone ledge, 20 ft. high, bears N. E. and S. W.
 39.20 $\frac{1}{2}$ sec. corner between secs. 1 and 6, T. 13 N.,
 Rs. 3 and 4 E., limestone 5x8x10 ins. above
 ground, marked and witnessed as described by the
 General Land Office.
 Land, mountainous.
 Soil, 4th rate.
 Timber, pine, spruce and fir.
 Formation, limestone.

October 20, 1904.

South Bdy. T. 14 N., R. 3 E.

October 21: At $\frac{1}{2}$ sec. corner on south bdy. sec. 36,
 south bdy. of T. 14 N., R. 3 E., at 9 a.m., l.m.t.,
 I set off $10^{\circ}41'$ S. on the declination arc and
 $41^{\circ}54'$ N. on the latitude arc and determine a
 true meridian with the solar.

Thence I run

West on a random line, west half, between secs.
 1 and 36.

36.75 Intersect N. and S. line 413 lks. S. of corner of
 secs. 1, 2, 35 and 36, which is a granite 4x8x10
 ins. above ground, marked and witnessed as des-
 cribed by the General Land Office; mound of stone
 to N. To further establish corner I take:

An aspen, 8 ins. diam., bears N. $31^{\circ}30'$ E., 27
 lks. dist., marked T 14 N R 3 E S 36 B T

An aspen, 8 ins. diam., bears S. $21^{\circ}15'$ E.,
 26 lks. dist., marked T 13 N R 3 E S 1 B T

An aspen, 8 ins. diam., bears S. $71^{\circ}30'$ W., 6
 lks. dist., marked T 13 N R 3 E S 2 B T

An aspen, 6 ins. diam., bears N. $40^{\circ}30'$ W., 23
 lks. dist., marked T 14 N R 3 E S 35 B T

Thence I run

S. $83^{\circ}35'$ E. on a true line, west half, between
 secs. 1 and 36, along N. slope, through aspen.

.06 Set iron Forest Reserve Boundary Post No. 72, which
 is an iron post, with brass cap, 4 ft. long, 4 ins.
 diam., 3 ft. in the ground, for witness corner to
 corner of secs. 1, 2, 35 and 36, marked on cap:

T 14 N S 36 W C on N.E.

R 3 E S 1 on S.E.

T 13 N S 2 on S.W.

S 35 on N.W.

No. 72 on S.

RESERVE in S. E. and S. W. quadrants, with 1
 notch on E. and 5 notches on W. edges.

4.00 Begin descent over N. W. slope.

9.00 Leave aspen, bears N. and S.; enter willows.

15.94 Logan River, 60 lks. wide, course S. 30° W., 150 ft.
 below corner; ascend S. W. slope through scatter-
 ing aspen.

16.78 Road, bears N. and S.

17.34 Set Boundary Post No. 71, which is an iron post,
 with brass cap, 4 ft. long, 4 ins. diam., 3 ft.
 in ground, for forest reserve boundary line post,
 marked on cap:

No. 71 on S.

RESERVE in S. E. and S. W. quadrants.

26.59 Spring drain, 20 lks. wide, 2 ins. deep, course
 S. W.; changes to N. W. slope.

36.75 $\frac{1}{2}$ sec. corner heretofore described.

Land, mountainous.

Soil, 4th rate.

timber, none; aspen and willow brush.

LOGAN FOREST RESERVE BOUNDARY.

North Bdy. T. 13 N., R. 3 E.

	Formation, limestone.
<p>Chains.</p> <p>40.00</p> <p>80.00</p> <p>120.00</p> <p>160.00</p> <p>200.00</p> <p>241.41</p>	<p>From the corner of secs. 1, 2, 35 and 36, West on a random line between secs. 2 and 35. After diligent search find no trace of $\frac{1}{4}$ sec. corner. Find no trace of corner of secs. 2, 3, 34 and 35. Find no trace of $\frac{1}{4}$ sec. corner. Find no trace of corner of secs. 3, 4, 33 and 34. Find no trace of $\frac{1}{4}$ sec. corner. Intersect N. and S. line 6 lks. North of corner of secs. 4, 5, 32 and 33, which is a limestone 15x15x12 ins. above ground. marked and witnessed as described by the General Land Office:</p>
	<p>To further establish this corner I take</p> <p>An aspen, 5 ins. diam., bears N. 59°10' E., 43 lks. dist., marked T 14 N R 3 E S 33 B T</p> <p>An aspen, 6 ins. diam., bears S. 70°35' E., 16 lks. dist., marked T 13 N R 3 E S 4 B T</p> <p>An aspen, 6 ins. diam., bears S. 20°45' W., 86 lks. dist., marked T 13 N R 3 E S 5 B T</p> <p>An aspen, 5 ins. diam., bears N. 36°10' W., 43 lks. dist., marked T 14 N R 3 E S 32 B T</p> <p>Note: Random line finished October 22 at 12^h 1.m.t., and corrected October 24, 1904.</p>
	<p>October 21, 1904.</p> <p>October 24: At 9.30 a.m., I set off 11°48' S. on the declination arc and 41°54' on the latitude arc, and determine a meridian with the solar at the corner of secs. 4, 5, 32 and 33.</p>
<p>.06</p>	<p>Thence I run</p> <p>N. 89°59' E. on a true line between secs. 4 and 33; gradually ascending S. W. slope, through aspen.</p> <p>Set Boundary Post No. 75, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 4, 5, 32 and 33, marked on cap: T 14 E S 33 W C on N. E. R 3 E S 4 On S. E. T 13 E S 55 on S. E. S 32 on N. W. No. 75 on S., and RESERVE on S. sides of top, with 4 notches on E., and 2 notches on W. edges of rim.</p>
<p>5.00</p>	<p>Leave aspen thicket, bears N. and E.</p>
<p>11.00</p>	<p>Top, 75 ft. above corner, slopes S. E., bears N.W. and S. E. Descend broken E. E. slope.</p>
<p>39.00</p>	<p>Small drain, course N. 20° E.</p>
<p>40.23$\frac{1}{2}$</p>	<p>Set a granite stone 32x15x10 ins. 24 ins. in the ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on N. face, from which:</p> <p>An aspen, 5 ins. diam., bears S. 70°35' W., 110 lks. dist., marked $\frac{1}{4}$ S 4 E T</p> <p>A fir, 20 ins. diam., bears E. 84°05' E., 310 lks. dist., marked $\frac{1}{4}$ S 4 E T</p>
	<p>A few scattering trees south of line.</p>
<p>60.00</p>	<p>Enter aspen thicket, bears N. W. and S. E., slope changes to E.</p>
<p>80.47</p>	<p>Set Boundary Post No. 74, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for corner of secs. 3, 4, 33 and 34, marked on cap: T 14 N S 34 on N. E. R 3 E S 3 on S. E. T 13 N S 4 on S. W. S.33 on N. W. No. 74 on S., and RESERVE on S. sides of top, with 3 notches on E. and W. edges of rim, from which:</p> <p>An aspen, 7 ins. diam., bears E. 47°20' E., 30 lks. dist., marked T 14 N R 3 E S 34 B T</p> <p>An aspen, 6 ins. diam., bears S. 55°50' E., 60 lks. dist., marked T 13 N R 3 E S 3 B T</p>

LOGAN FOREST RESERVE BOUNDARY.

North Bdy. T. 13 N., R. 3 E.

Chains.

An aspen, 4 ins. diam., bears S. 55°40' W., 16
lks. dist., marked T 13 N R 3 E S 4 B T
An aspen, 4 ins. diam., bears N. 35°10' W., 14
lks. dist., marked T 14 N R 3 E S 33 B T

Land, mountainous.

Soil, 4th rate.

Timber, aspen, some pine south.

Formation, limestone.

I set off 11°51' S. on the declination arc, and at
11°50^m by my watch observe the sun on the merid-
ian and obtain a reading of 41°54' on the lati-
tude arc at the corner of secs. 3, 4, 33 and 34.

Thence I run

N. 89°59' E. on a true line between secs. 3 and 34.

Corner about 400 ft. below top of ridge; over
rolling land, through scattering aspen thickets.

1.50 Drain, course N. E. Ascend.

7.00 Top of spur, 75 ft. above drain, slopes N.

37.00 Same drain, course S. E., about 150 ft. below top
of spur; thence over rolling broken land.

40.23½ Set a limestone 24x20x10 ins., 18 ins. in the ground,
for ¼ sec. corner, marked ¼ on N. face, from
which:

An aspen, 5 ins. diam., bears N. 55°40' E., 8
lks. dist., marked ¼ S 3 B T

An aspen, 5 ins. diam., bears S. 51°40' W., 30
lks. dist., marked ¼ S 34 B T

62.00 Drain, course S.

77.00 Drain, course S.

77.50 Leave aspen thicket, bears N. and S. E.

80.47 Set Boundary Post No. 73, which is an iron post,
with brass cap, 4 ft. long, 4 ins. diam., 3 ft.
in the ground, for corner of secs. 2, 3, 34 and
35, marked on cap:

T 14 N S 35 on N. E.

R 3 E S 2 on S. E.

T 13 N S 3 on S. W.

S 34 on E. W.

No. 73 on S., and

RESERVE on E. sides of top, with 2 notches on E.
and 4 notches on W. edges of rim, from which:

An aspen, 4 ins. diam., bears S. 21°20' E.,
83 lks. dist., marked T 13 N R 3 E S 2 B T

An aspen, 4 ins. diam., bears S. 20°50' W., 72
lks. dist., marked T 13 N R 3 E S 3 B T

Dig pits 18x18x12 ins. in each section, 5½ ft.
dist., and raise a mound of earth, 4 ft. base, w
2 ft. high, west of corner.

Land, mountainous.

Soil, 4th rate.

Timber, aspen.

Formation, limestone.

N. 89°59' E. on a true line between secs. 2 and 35,
ascending S. W. slope, sage brush prairie.

13.00 Leave prairie and enter aspen and dense undergrowth.

16.00 Top of ridge, bears N. 70° W. and S. 70° E., 125
ft. above corner. Descend N. E. slope.

40.23½ Set a limestone 18x12x7 ins., 14 ins. in the ground,
for ¼ sec. corner, marked ¼ on N. face; from which:

An aspen, 9 ins. diam., bears N. 17° E., 22
lks. dist., marked ¼ S 35 B T

An aspen, 7 ins. diam., bears S. 9°30' W., 37
lks. dist., marked ¼ S 2 B T

73.00 Slope changes to N. about 500 ft. below top of
ridge.

LOGAN FOREST RESERVE BOUNDARY.

North Bay. T. 13 N., R. 3 E.

Chains.

80.47

The corner of secs. 1, 2, 35 and 36, heretofore described.
Land, mountainous.
Soil, 4th rate.
Timber, aspen,
Formation, limestone; undergrowth, bear brush or
larb.

October 24, 1904.

October 22: At 2 p.m. I set off $11^{\circ}07'$ S. on the declination arc and $41^{\circ}54'$ on the latitude arc and determine a true meridian with the solar, at the corner of secs. 4, 5, 32 and 33.

Thence I run

West on a random line between secs. 5 and 32.

40.60

Intersect N. and S. line, 76 lks. N. of $\frac{1}{2}$ sec. corner, which is a granite $14 \times 12 \times 10$ ins. above ground, marked and witnessed as described by the General Land Office.

Thence I run

N. $89^{\circ}38'$ E. on a true line between secs. 5 and 32, east half; descending N. E. slope.

25.10

DRAIN, course S. E., 125 ft. below $\frac{1}{2}$ corner; ascend 125 ft. to sec. corner; also enter aspen, bears N. W. and S. E.

40.60

Corner of secs. 4, 5, 32 and 33, heretofore described.

Thence I run

West on random line, between secs. 5 and 32, west half.

40.20

Intersect N. and S. line, 70 lks. S. of corner of secs. 5, 6, 31 and 32, which is a granite $8 \times 12 \times 12$ ins. above ground, marked and witnessed as described by the Gen. Land Office, except the mound is N. instead of E. of corner. To further establish this corner I take:

A spruce, 15 ins. diam., bears N. $76^{\circ}30'$ E., 53 lks. dist., marked T 14 N R 3 E S 32 B T

A spruce, 36 ins. diam., bears S. $53^{\circ}30'$ E., 54 lks. dist., marked T 15 N R 3 E S 5 B T

No other suitable trees within limits.

Thence I run

S. $89^{\circ}43'$ E. on a true line between secs. 5 and 32, west half. (This corner is in west edge of basin draining S.)

.06

Set Boundary Post No. 76, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 5, 6, 31 and 32, marked on cap:

T 14 N S 32 W C on N. E.

R 3 E S 5 on S. E.

T 13 N S 6 on S. E.

S 31 on N. W.

No. 76 on S., and

RESERVE on S. sides of top, with 5 notches on E. and 1 notch on W. edges of rim.

2.20

Begin ascent, through heavy timber, S. W. slope.

27.50

Top of ascent, 100 ft. above corner. Leave timber, bears N. and S.; thence along N. slope.

40.20

$\frac{1}{2}$ sec. corner heretofore described.

Land, mountainous.

Soil, 4th rate.

Timber, spruce.

Formation, limestone.

From the corner of secs. 31, 32, 5 and 6, I run

LOGAN FOREST RESERVE BOUNDARY.

North Fdy. T. 13 N., R. 3 E.

Chains. West on random line, between secs. 6 and 31.
 40.36 Intersect N. and S. line 1 lk. S. of $\frac{1}{2}$ sec. corner, which is a limestone in place 30x16x15 ins. above ground, marked and witnessed as described by the Gen. Land Office. To further establish corner:
 A spruce, 24 ins. diam., bears T. 22° E., 85 lks. dist., marked $\frac{1}{2}$ S 31 T T
 A spruce, 30 ins. diam., bears S. 73° W., 103 lks. dist., marked $\frac{1}{2}$ S 6 P T
 Thence I run
 S. 89°59' E. on a true line between secs. 6 and 31, east half. Descend S. E. slope through timber.
 19.00 Drain, course S. E., 200 ft. below $\frac{1}{2}$ corner, gradually ascend S. E. slope.
 27.50 Top of spur, slopes S. E., 75 ft. above drain.
 35.00 Small lake bears S. about 20.00 chs. dist.
 40.36 Corner of secs. 5, 6, 31 and 32, heretofore described.

October 22, 1904.

October 25: At 10 a.m. I set off 11°25' S. on the declination arc and 41°54' on the latitude arc, and determine a true meridian with the solar.
 At the $\frac{1}{2}$ corner between secs. 6 and 31
 Thence I run
 West, on a random line, between secs. 6 and 31, west half.
 40.30 Intersect N. and S. line 9 lks. N. of corner of Tps. 13 and 14 N., Rs. 2 and 3 E., which is a limestone 1'x1'x12 ins. above ground, marked and witnessed by mound of stone. To further establish corner:
 A spruce, 16 ins. diam., bears N. 68°30' E., 48 lks. dist., marked T 14 N R 3 E S 31 B T
 A spruce, 18 ins. diam., bears S. 26°30' E., 175 lks. dist., marked T 13 N R 3 E S 6 B T
 A spruce, 14 ins. diam., bears S. 40°15' W., 60 lks. dist., marked T 13 N R 2 E S 1 B T
 A spruce, 16 ins. diam., bears S. 50°15' W., 55 lks. dist., marked T 14 N R 2 E S 36 B T
 A sink hole about 50 ft. deep bears S. 50 lks. dist.
 Thence I run
 N. 89°58' E. on a true line, between secs. 6 and 31, west half; descending rough broken land through timber.
 .06 Set boundary post No. 77, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in ground, for witness corner to corner of Tps. 13 and 14 N., Rs. 2 and 3 E., marked on cap:
 T 14 N S 31 W C on N. E.
 R 3 E S 6 on S. E.
 T 13 N S 1 on S. W.
 R 2 E S 36 on N. W.
 No. 77 on S., and
 RESERVE on N. sides of top, with 6 notches on N., S., E. and W. edges of rim.
 17.00 Head of drain, course S. E. about 400 ft. below corner, gradually ascend about 50 ft. to corner.
 40.36 $\frac{1}{2}$ sec. corner heretofore described.
 Land, mountainous.
 Soil, 4th rate.
 Timber, spruce.
 Formation, limestone.

Logan Forest Reserve Boundary.

North Bay. T. 13 N., R. 3 E.

- Chains. I set off $11^{\circ}27'$ S. on the declination arc and at 11^h51^m l.m.t., observe the sun on the meridian and obtain a reading of $41^{\circ}54'$ on the latitude arc at the corner of Tps. 13 and 14 N., Rs. 2 and 3 E.
- Thence I run
West on a random line between secs. 1 and 36.
- 35.60 Intersect N. and S. line 1.14 chs. N. of $\frac{1}{4}$ sec. corner, which is a limestone in place $10 \times 5 \times 3$ ft. above ground, marked on N.W. corner and witnessed by mound of stone north of same. To further establish corner:
A spruce, 24 ins. diam., bears N. 68° E., 122 lks. dist., marked $\frac{1}{4}$ S 36 B T
A spruce, 30 ins. diam., bears S. $84^{\circ}30'$ W., 151 lks. dist., marked $\frac{1}{4}$ S 1 B T
- Thence I run
N. $88^{\circ}10'$ E. on a true line between secs. 1 and 36, ascending S. W. slope, through timber.
- 19.60 Top of divide between Logan River and Cache Valley, bears E. and S., about 250 ft. above $\frac{1}{4}$ sec. corner. Descend rough broken E. slope.
- 35.60 Corner of Tps. 13 and 14 N., Rs. 2 and 3 E., heretofore described.
- October 23, 1904.
- Note: October 24: Correct random lines.
October 25th and 26th move to west side of range of mountains.
- October 27: At 10 a.m. I set off $12^{\circ}47'$ S. on the declination arc and $41^{\circ}54'$ on the latitude arc and determine a true meridian with the solar at the $\frac{1}{4}$ corner between secs. 1 and 36.
- Thence I run
West on a random line between secs. 1 and 36, west half.
- 43.77 Intersect N. and S. line 3.89 chs. N. of corner of secs. 1, 2, 35 and 36, which is a granite $4 \times 10 \times 8$ ins. above ground properly marked and witnessed by mound of stone N. of corner. To further establish corner
A spruce, 18 ins. diam., bears S. $39^{\circ}45'$ W., 254 lks. dist., marked T 13 N R 2 E S 2 B T
A spruce, 24 ins. diam., bears N. $73^{\circ}30'$ W., 266 lks. dist., marked T 14 N R 2 E S 35 B T
- No other trees within limits.
From this corner a small spring bears S. 20° W., 150 lks. dist.,
- Thence I run
N. $84^{\circ}15'$ E. on a true line between secs. 1 and 36, west half; ascending broken and rough S. W. slope through scattering timber.
- .06 Set Boundary Post No. 78, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 1, 2, 35 and 36, marked on cap:
T 14 N S 36 W C on N. P.
R 2 E S 1 on S. E.
T 13 N S 2 on S. W.
S 35 on N. W.
No. 78 on S., and
RESERVE on S. sides of top, with 1 notch on E. and 5 notches on W. edges of rim.
- 43.77 $\frac{1}{4}$ sec. corner heretofore described.
Land, mountainous.
Soil, 4th rate.
Timber, spruce and scrub cedar.
Formation, granite and limestone.

LOGAN FOREST RESERVE BOUNDARY.

North Ndy. T. 13 N., R. 2 E.

- Chains.** I set off $12^{\circ}49'$ S. on the declination arc and at 11^{50}^m l.m.t. observe the sun on the meridian and obtain a reading of $41^{\circ}54'$ on the latitude arc at the corner of secs. 35, 36, 1 and 2.
- Thence I run
West on a random line between secs. 2 and 35.
- 40.00 Find no trace of $\frac{1}{2}$ sec. corner.
76.D8 Intersect N. and S. line 5.60 chs. E. of corner of secs. 2, 3, 34 and 35, which is a limestone $18 \times 10 \times 5$ ins., in mound of stone, properly marked, and witnessed by mound of stone to the north and
A spruce, 20 ins. diam., bears N. 52° E., 83 lks. dist., properly marked.
No other trees within limits.
- Thence I run
N. $85^{\circ}48'$ E. on a true line between secs. 2 and 35.
Descending through scattering timber.
- 18.00 Head of drain, course S. 20° W. about 75 ft. below corner. Ascend.
- 22.00 Top of ridge, 50 ft. above drain, bears N. and S.
Descend S. E. slope.
- 36.00 Small drain, 2 lks. wide, course S. E.
- 38.04 Set a limestone $20 \times 16 \times 5$ ins., 15 ins. in the ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on N. face, from which:
A mahogany, 8 ins. diam., bears N. $60^{\circ}30'$ E., 44 lks. dist., marked $\frac{1}{2}$ S 35 B T
A spruce, 14 ins. diam., bears S. 65° E., 31 lks. dist., marked $\frac{1}{2}$ S 2 B T
- 48.10 Smithfield Creek, 5 lks. wide, course S. W., 250 ft. below top of ridge; ascend steep and broken rocky slope.
- 52.00 Ascend steep rocky bluffs, bears N. and S.
- 69.00 Leave steep bluffs, continue ascent.
- 76.08 Corner of secs. 1, 2, 35 and 36, heretofore described, 1150 ft. above Smithfield Creek.
Land, mountainous.
Soil, 4th rate.
Timber, spruce, scrub cedar and mahogany.
Formation, limestone.

October 27, 1904.

- October 28: At 10 a.m. I set off $13^{\circ}08'$ S. on the declination arc and $41^{\circ}54'$ on the latitude arc and determine a true meridian with the solar at the corner of secs. 34, 35, 2 and 3.
- Thence I run
West on a random line, between secs. 3 and 34.
- 40.00 After diligent search fail to find $\frac{1}{2}$ sec. corner.
76.28 Intersect N. and S. line 25 lks. E. of corner of secs. 3, 4, 33 and 34, which is a limestone $4 \times 12 \times 7$ ins. above ground, properly marked and witnessed as follows: A mound of stone to the north.
A spruce, 20 ins. diam., bears N. 60° E., 112 lks. dist., properly marked.
A spruce, 12 ins. diam., bears S. $40^{\circ}30'$ E., 60 lks. dist., properly marked.
A spruce, 20 ins. diam., bears S. $79^{\circ}15'$ W., 122 lks. dist., properly marked.
A spruce, 24 ins. diam., bears N. $66^{\circ}15'$ W., 139 lks. dist., properly marked.
- Thence I run
S. $89^{\circ}49'$ E. on a true line, between secs. 3 and 34.
Ascending N. W. slope, through timber.
- Set Boundary Post No. 80, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 3, 4, 33 and 34, marked:

LOGAN FOREST RESERVE BOUNDARY

North Bay. T. 13 N., R. 2 E.

Chains.	<p>T 14 N S 34 W C on N. E. R 2 E S 3 on S. E. T 13 N S 4 on S. W. S 33 on N. W. No. 80 on S., and RESERVE on S. sides of top, with 3 notches on E. and W. edges of rim.</p>
12.50	Top of ridge, 200 ft. above corner. Descend S.E. slope.
38.09	<p>True point for $\frac{1}{2}$ sec. corner falls on limestone in place 22x30x40 ins. in place, at which point marked with cross (+) and $\frac{1}{2}$ on N. side of cross, from which</p> <p>A spruce, 24 ins. diam., bears N. 69°30' W., 263 lks. dist., marked $\frac{1}{2}$ S 34 B T</p> <p>A spruce, 20 ins. diam., bears S. 45° E., 5 lks. dist., properly marked by former surveyors.</p> <p>I set off 13°09' S. on the declination arc and at 11^h48^m l.m.t., observe the sun on the meridian and obtain a reading of 41°54' on the latitude arc.</p>
41.60	Head of drain, course S. 10° E.
72.60	Head of drain, course S. 30° W., about 800 ft. below top of ridge, ascend 100 ft. to
76.12	<p>Set Boundary Post No. 79, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in known mound of stone, for witness corner to corner of secs. 2, 3, 34 and 35, marked on cap:</p> <p>T 14 N S 35 W C on N. E. R 2 E S 2 on S. E. T 13 N S 3 on S. W. S 34 on N. W. No. 79 on S., and RESERVE on S. sides of top, with 2 grooves on E. and 4 notches on W. sides of rim.</p>
76.18	<p>Corner of secs. 2, 3, 34 and 35, heretofore described.</p> <p>Land, mountainous. Soil, 4th rate. Timber, spruce. Formation, limestone.</p>
October 28, 1904.	
<p>October 30: At 10 a.m. I set off 13°47' S. on the declination arc and 41°54' on the latitude arc and determine a true meridian with the solar at the corner of secs. 33, 34, 3 and 4.</p> <p>Thence I run</p> <p>West on a random line between secs. 4 and 33.</p>	
38.85	<p>Intersect N. and S. line 43 lks. S. of $\frac{1}{2}$ sec. corner, which is a limestone 5x10x6 ins. above ground, marked and properly witnessed by mound of stone N. of corner. To further establish corner I take:</p> <p>A spruce, 14 ins. diam., bears S. 62°45' E., 157 lks. dist., marked $\frac{1}{2}$ S 4 B T</p> <p>A spruce, 15 ins. diam., bears S. 71°45' W., 126 lks. dist., marked $\frac{1}{2}$ S 4 B T</p> <p>Thence I run</p> <p>S. 89°23' E. on a true line between secs. 4 and 33, east half. Descend S. E. slope through scattering timber.</p>
6.30	<p>Drain, course S. W., 150 ft. below $\frac{1}{2}$ sec. corner.</p> <p>Ascend W. slope.</p>
15.30	Side hill drain, course N. W.
38.85	<p>Corner of secs. 3, 4, 33 and 34, heretofore described.</p> <p>I set off 13°49' S. on the declination arc and at</p>

LOGAN FOREST RESERVE BOUNDARY.

North Bdy. T. 13 N., R. 2 E.

Chains	11 ^h 50 ^m 1.m.t. observe the sun on the meridian and obtain a reading of 41°54' on the latitude arc at the $\frac{1}{2}$ corner between secs. 4 and 33. Thence I run West on a random line between secs. 4 and 33, west half.
39.92	Intersect N. and S. line 46 lks. N. of corner of secs. 4, 5, 32 and 33, which is a granite stone in place 24x24x10 ins. above ground, properly marked and witnessed by mound of stone on the north. To further establish this corner I take: A pine, 14 ins. diam., bears N. 21° E., 115 lks. dist., marked T 14 N R 2 E S 33 B T A mahogany, 16 ins. diam., bears S. 19° E., 88 lks. dist., marked T 13 N R 2 E S 4 E T Thence I run N. 89°19' E. on a true line between secs. 4 and 33, west half; ascending rough broken W. slope, through scattering timber.
.06	Set Boundary Post No. 81, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 4, 5, 32 and 33, marked on cap: T 14 N S 33 W C on N. E. E 2 E S 4 on S. E. T 13 N S 5 on S. W. S 31 on N. E. No. 81 on C., and RESERVE on S. sides of top, with 4 notches on E., and 2 notches on W. edges of rim.
8.00	Slope changes to S. W.
18.00	Top of ascent slopes S. about 150 ft. above sec. corner; descend 200 ft. to
39.92	$\frac{1}{2}$ sec. corner heretofore described. Land, mountainous. Soil, 4th rate. Timber, spruce and mahogany. Formation, limestone.
40.00	From the corner of secs. 32, 33, 4 and 5, I run West on random line between secs. 5 and 32. Find no trace of $\frac{1}{2}$ sec. corner.
81.36	Intersect N. and S. line 169 lks. S. of corner of secs. 5, 6, 31 and 32, which is a limestone 5x8x8 ins. above ground, marked and witnessed as described by General Land Office. Thence I run S. 88°40' E. on a true line between secs. 5 and 32, ascending rough broken land.
5.80	Top of ascent, about 100 ft. above corner, thence along broken N. slope, through dense growth of bear brush.
36.00	Descend S. E. slope.
40.50	Drain, course N. W.; ascend spur sloping W. This drain is about 100 ft. below 36.00 ch. point.
40.68	Set granite stone 20x10x8 ins., 15 ins. in the ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on N. face; raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of corner.
58.00	Enter scattering timber, bears N. and S.
81.36	The corner of secs. 4, 5, 32 and 33, heretofore described. Land, mountainous. Soil, 4th rate. Timber, scattering spruce. Formation, granite and limestone. Undergrowth, bear brush.

October 30, 1904.

LOGAN FOREST RESERVE BOUNDARY.

North Bay. T. 13 N., R. 2 E.

Chains.	October 31: At 9 a.m. I set off 14°05' S. on the declination arc and 41°54' on the latitude arc and determine a true meridian with the solar at the corner of secs. 31, 32, 5 and 6. Thence I run South between secs. 5 and 6 on a random line.
40.20	Intersect E. and W. line, 58 lks. W. of $\frac{1}{2}$ sec. corner, which is a limestone 16x14x5 ins. above ground, marked and witnessed as described by the General Land Office Thence I run N. 0°50' W. on a true line between secs. 5 and 6, north half; ascend gradually, slopes nearly west.
25.00	Top slopes W. Descend through brush 350 ft. to
40.14	Set Boundary Post No. 82, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 5, 6, 31 and 32, marked on cap: T 14 N S 32 W C on N. E. R 2 E S 5 on S. E. T 13 N S 6 on S. W. S 31 on N. W. No. 82 on S., and RESERVE on S. E. sides of top, with 5 notches on E. and 1 notch on W. edges of rim.
40.20	Corner of secs. 5, 6, 31 and 32, heretofore described. I set off 14°09' S. on the declination arc and at 11 ^h 50 ^m 1.m.t., observe the sun on the meridian, and obtain a reading of 41°53' on the latitude arc, at the $\frac{1}{2}$ corner between secs. 5 and 6. Note: From above described $\frac{1}{2}$ sec. corner I find another $\frac{1}{2}$ sec. corner, bears S. 41°10' W., 319 lks. dist., properly marked and witnessed by mound of stone: Thence I run South on a random line between secs. 5 and 6, south half.
40.17	Intersect E. and W. line 107 lks. W. of corner of secs. 5, 6, 7 and 8, which is a limestone 8x12x6 ins. above ground, marked and witnessed as described by the Gen. Land Office. To further establish corner I take: A spruce, 10 ins. diam., bears S. 17°15' W., 54 lks. dist., marked T 13 N R 2 E S 7 B T No other trees suitable within limits. Thence I run N. 1°32' W. on a true line between secs. 5 and 6, south half.
.06	Set Boundary Post No. 83, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 5, 6, 7 and 8, marked on cap: T 13 N S 5 W C on N. E. R 2 E S 8 on S. E. S 7 on S. W. S 6 on N. W. No. 83 on S., and RESERVE on E. sides of top, with 5 notches on S. and E. edges of rim.
2.00	Head of drain, course N. 70° W. Ascend 100 ft. to
7.50	Top of spur sloping W. Descend 350 ft. to
25.80	Spring drain, 2 lks. wide, course W. Ascend 150 ft. to
40.17	$\frac{1}{2}$ sec. corner, heretofore described. Land, mountainous. Soil, 4th rate. Timber, none; bear brush and scrub mahogany on N. slopes.

LOGAN FOREST RESERVE BOUNDARY.

T. 13 N., R. 2 E.

Chains. Formation, limestone.

- 40.10 From the corner of secs. 5, 6, 7 and 8 I run South between secs. 7 and 8 on a random line. Intersect N. and W. line 11 lks. E. of $\frac{1}{2}$ sec. corner, which is a granite stone 4x10x8 ins. above ground, marked and witnessed as described by the General Land Office.
- Thence I run N. 0°18' E. on a true line between secs. 7 and 8, north half.
- .40 Drain, course S. W. Ascend S. W. slope.
- 23.00 Top of ascent slopes W., 250 ft. above drain; thence along W. slope to.
- 23.00 Begin descent E. slope, through dense undergrowth and scattering spruce.
- 40.10 Corner of secs. 5, 6, 7 and 8, heretofore described, about 300 ft. below top.

October 31, 1904.

- November 1: At 8 a.m. I set off 14°22' on the declination arc and 41°52' on the latitude arc and determine a true meridian with the solar.
- At the corner between secs. 7 and 8, Thence I run South on a random line between secs. 7 and 8.
- 38.91 Intersect N. and W. line 105 lks. E. of corner of secs. 7, 8, 17 and 18, which is a granite stone 8x14x6 ins. above ground, marked and witnessed as described by the General Land Office.
- Thence I run N. 1°30' E. on a true line between secs. 7 and 8, south half, ascending S. E. slope.
- .06 Set Boundary Post No. 84, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 7, 8, 17 and 18, marked on cap:
- T 15 W S 8 on N. W.
- N 2 E S 17 on S. W.
- S 18 on S. W.
- S 7 on N. W.
- No. 84 on S., and RESERVE on N. sides of top, with 4 notches on S. and 5 notches on N. edges of rim.
- 20.00 Top of spur sloping S. E., thence on S. W. slope.
- 29.00 Top of ascent, slopes W. about 350 ft. above corner; descend S. W. slope 150 ft. to $\frac{1}{2}$ sec. corner heretofore described.
- 38.91 Land, mountainous.
- Soil, 4th rate.
- Timber, spruce; dense growth of bear brush on north slopes.
- Formation, granite.

- 40.21 From the corner of secs. 7, 8, 17 and 18 I run South on a random line between secs. 17 and 18. Intersect N. and W. line 106 lks. E. of $\frac{1}{2}$ sec. corner, which is a granite 6x10x8 ins. above ground, marked and witnessed as described by General Land Office.
- Thence I run N. 1°31' W. on a true line between secs. 17 and 18, north half; descending north slope through dense undergrowth.
- 5.41 Set Boundary Post No. 85, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for forest reserve boundary line post, marked on cap:

LOGAN FOREST RESERVE BOUNDARY.

T. 13 N., R. 2 E.

Chains.	No. 85 on S., and RESERVE on E. sides of top.
5.60	Wood road up Smithfield Canyon, bears E. and W.
8.30	Smithfield Creek, 20 lks. wide, Course W., 75 ft. below corner.
11.40	Wire fence, bears E. and W.
17.00	Wire fence, bears E. and W. This is near east end of S. P. Wilson's field; also begin ascent S. E. slope.
40.21	Corner of secs. 7, 8, 17 and 18, heretofore des- cribed, about 150 ft. above creek. From the $\frac{1}{2}$ corner between secs. 17 and 18 Thence I run South on a random line between secs. 17 and 18.
45.73	At this point I intersect E. and W. line 202 lks. W. of corner of secs. 17 and 18, 19 and 20, which is a limestone 18x17x7 ins. lying on top of the ground properly marked, and a mound of stone W. of the point where the stone had set. I set in place of the stone Boundary Post No. 86, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for cor- ner of secs. 17, 18, 19 and 20, marked on the cap: T 13 N S 17 on N. E. R 2 E S 20 on S. E. S 19 on S. W. S 18 on E. W. No. 86 on S., and RESERVE on E. and E. sides of top, with 3 notches on S. and 5 notches on E. edges of rim. Note: The last half mile between these secs. was reclaimed for errors, but failed to find any. Thence I run N. 2°53' W. on a true line between secs. 17 and 18, south half. Ascending S. slope.
13.00	Top of ridge about 300 ft. above corner; thence descend over N. W. slope, steep and rocky.
39.70	Enter dense growth of brush, bears E. and W.
45.73	$\frac{1}{2}$ sec. corner heretofore described. Land, mountainous. Soil, 4th rate. Timber, none. Undergrowth, bear brush and some aspen along creek. Formation, limestone.
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	I set off 14°28' S. on the declination arc and at 11 ^h 49 ^m l.m.t. observe the sun on the meridian and obtain a reading of 41°51' on the latitude arc at the corner of secs. 17, 18, 19 and 20. Thence I run West on a random line between secs. 18 and 19.
40.00	Find no trace of old $\frac{1}{2}$ sec. corner.
80.00	Find no trace of corner of secs. 13, 18, 19 and 24. Set temporary. Thence I go to the $\frac{1}{2}$ sec. corner between secs. 13 and 18, which is a limestone 16x10x5 ins., marked and witnessed as described by the Gen. Land Office, and run South on a random line between secs. 13 and 18.
40.00	No trace of corner of secs. 13, 18, 19 and 24. Set temporary.
November 1, 1904.	
November 2: At 8 a.m. I set off 14°41' S. on the declination arc and 41°51' on the latitude arc, and determine a true meridian with the solar.	
Thence I continue South on random line between secs. 19 and 24.	
80.00	No trace of $\frac{1}{2}$ sec. corner; set temporary.
120.00	No trace of corner of secs. 19, 24, 25 and 30

LOGAN FOREST RESERVE BOUNDARY.

T. 13 N., R. 2 E.

Chains.

Set temporary.
I set off $14^{\circ}47'$ S. on the declination arc and at 11^h48^m observe the sun on the meridian and obtain a reading of $41^{\circ}50'$ on the latitude arc.
Continue line south.
160.00 No trace of $\frac{1}{2}$ sec. corner; set temporary.
200.00 No trace of corner of secs. 25, 30, 31 and 36; set temporary.
240.00 No trace of $\frac{1}{2}$ sec. corner; set temporary.
280.00 No trace of standard corner to corner of Tps. 13 N., Rs. 1 and 2 E.; set temporary.

November 2, 1904.

November 3: Move camp.

November 4: At 8.30 a.m. I set off $15^{\circ}20'$ S. on the declination arc and $41^{\circ}48'$ on the latitude arc, and establish a true meridian with the solar at the standard corner of secs. 35 and 36, T. 13 N., R. 1 E., which is a limestone $7 \times 6 \times 8$ ins. above ground, marked and witnessed as described by the General Land Office.

Thence I run

East on a random line along S. boundary of sec. 36.
40.00 No trace of standard $\frac{1}{2}$ sec. corner; set temporary.
80.00 No trace of standard corner of T. 13 N., Rs. 1 and 2 E.

Difference between measurements by two sets of chainmen at a point due south standard $\frac{1}{2}$ sec. corner is 8 lks. Position of middle point

By 1st set, 124.40 chs.

By 2nd set, 124.48 chs.; the mean of which is

120.45 Intersect T. and S. line 137 lks. S. of standard $\frac{1}{2}$ sec. corner on south boundary of sec. 31, which is a limestone $6 \times 1 \times 9$ ins. above ground, marked and witnessed as described by the General Land Office.

11 a.m. November 4, 1904.

Note: For fear of stormy bad weather, I continue work on line and correct random.

Third Standard Parallel, Range 2 E.

November 9: At 8 a.m. I set off $16^{\circ}48'$ S. on the declination arc and $41^{\circ}48'$ on the latitude arc and determine a true meridian with the solar at the standard $\frac{1}{2}$ sec. corner on south boundary of sec. 31.

Thence I run

S. $89^{\circ}22'$ W. on south bdy. sec. 31.
40.15 Set a limestone $18 \times 12 \times 8$ ins., 12 ins. in the ground for standard corner of Tps. 13 N., Rs. 1 and 2 E., marked S. C. on N. face and 6 grooves on N., E., and W. sides of stone, $3\frac{1}{2}$ ft. base, 12 ft. high, N. of corner.

S. $89^{\circ}22'$ W., on south boundary of sec. 36.
40.15 Set a limestone $26 \times 10 \times 7$ ins., 20 ins. in the ground, for standard $\frac{1}{2}$ sec. corner, marked S. C. $\frac{1}{2}$ on N. face; raise a mound of stone $3\frac{1}{2}$ ft. base, 12 ft. high, N. of corner.

80.30 Standard corner of secs. 35 and 36, heretofore described.

East Bdy. T. 13 N., R. 1 E.

Thence I return to temporary stake set for corner of secs. 31 and 36, T. 13 N., Rs. 1 and 2 E., and continue random line to an intersection with the Third Standard Parallel.

283.22 Intersect Third Standard Parallel N. 480 lks. W.

LOGAN FOREST RESERVE BOUNDARY.

East Bdy. T. 13 N., R. 1 E.

Chains	of standard corner of T. 13 N., Rs. 1 and 2 E., heretofore described. Thence I run from the standard corner of T. 13 N., Rs. 1 and 2 E., N. 0°58' W. between secs. 31 and 36.
40.46	Set a limestone 26x10x7 ins., 20 ins. in the ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face; raise a mound of stone 2 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of corner.
80.92	Set Boundary Post No. 90, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in a mound of stone, for corner of secs. 25, 30, 31 and 36, marked on cap: T 13 N S 30 on N. E. R 2 E S 31 on S. E. S 36 on S. W. R 1 E S 35 on N. W. No. 90 on S., and RESERVE on E. sides of top, with 1 notch on S. and 5 notches on N. edges of rim; raise a mound of stone, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of corner.
	N. 0°58' W. between secs. 25 and 30, ascending south slope.
8.50	Top of ascent about 250 ft. above corner, thence along W. slope.
29.70	Head of drain, course S. W.
40.46	Set a granite 30x12x10 ins., 24 ins. in the ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face; raise a mound of stone, 2 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of corner.
45.00	Head of drain, course W.
54.00	Begin ascent of 250 ft. on S. W. slope.
60.00	Top of ascent, slopes W. Descend N. slope 450 ft. to corner.
80.92	Set Boundary Post No. 89, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for corner of secs. 19, 24, 25 and 30, marked on cap: T 13 N S 19 on N. E. R 2 E S 30 on S. E. S 25 on S. W. R 1 E S 24 on N. W. No. 89 on S., and RESERVE on E. sides of top, with 2 notches on S. and 4 notches on N. sides of rim; raise a mound of stone, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of corner.
	Land, mountainous. Soil, 4th rate. Timber, none. Formation, granite and limestone.
	N. 0°58' W. between secs. 19 and 24. Descending N. E. slope.
12.00	A spur slopes N. 20° E.; thence descend N. W. slope.
32.90	Branch, 7 lks. wide, course W., 600 ft. below corner. Ascend S. W. slope.
35.90	Set Boundary Post No. 88, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for forest reserve boundary line post No. 88, marked on cap: No. 88 on S., and RESERVE on S. sides of top.
36.10	Road (wood) bears N. 80° E. and S. 80° W.
40.46	The point for $\frac{1}{2}$ sec. corner falls on limestone rock in place 14x10x8 ft. above ground; cut a cross (+) at corner point, and mark $\frac{1}{2}$ on W. side; raise a mound of stone, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of corner.

LOGAN FOREST RESERVE BOUNDARY.

East Bdy. T. 13 N., R. 1 E.

Chains.

- 70.00 Slope changes to S.
 78.83 Intersect random line along south boundary of sec. 18 prolonged W. this day.
 79.00 Top of ridge 750 ft. above branch, bears F. and W. Descend N. slope.
 80.92 Set a limestone 16x18x8 ins., 12 ins. in the ground, for corner of secs. 13, 18, 19 and 24, marked on N. and S. edges, with 3 grooves; raise a mound of stone 3½ ft. base, 1½ ft. high, W. of corner. Land, mountainous. Soil, 4th rate. Timber, aspen about 2 chs. wide along branch. Formation, limestone and granite.
-
- 40.46 N. 0°58' W. between secs. 13 and 18. ½ sec. corner between secs. 13 and 18, heretofore described. T. 13 N., R. 2 E.
 June 7, 1905:
 At 9 a.m., l.m.t., I set off 22°44' N. on the declination arc and 41°51' N. on the latitude arc and determine a true meridian with the solar at corner of secs. 17, 18, 19 and 20, T. 13 N., R. 2 E., heretofore described.
 Thence I run
 West on a random line between secs. 18 and 19.
 80.35 Intersect N. and S. line 209 lks. S. of corner of secs. 13, 18, 19 and 24, heretofore described.
 Thence I run
 S. 88°30' E. on a true line between secs. 18 and 19, descending along N. slope of ridge.
 .50 Set iron U. S. Forest Reserve Boundary Post No. 87 in the ground and mound of stone for witness corner to corner of secs. 13, 18, 19 and 24, marked on cap:
 W C T 13 N S 18 on N. E.
 R 2 E S 19 on S. E.
 S 24 on S. W.
 R 1 E S 13 on N. W.
 RESERVE in S. E. quadrant.
 No. 87 on S., with 6 notches on N. and S. edges.
 Note: On account of a ledge so near to corner, near top of ground, it is best to set post at this point.
 18.00 Foot of descent, about 150 ft. below corner. Ascend along N. slope.
 40.17½ Set a granite stone 22x14x6 ins., 18 ins. in the ground, for ½ sec. corner, marked ½ on N. face; dig pits 18x18x12 ins. E. and W. of stone, 3 ft. dist., raise a mound of earth, 3½ ft. base, 1½ ft. high, north of corner.
 52.50 Top of ridge bears N. 80° E. and S. 80° W. Thence gradually descend along S. slope.
 68.30 Mining prospect bears E. about 60 lks. dist.
 80.35 Corner of secs. 17, 18, 19 and 20, heretofore described. Land, mountainous. Soil, 3rd and 4th rate. Timber none. Formation, granite.

June 7, 1905.

LOGAN FOREST RESERVE BOUNDARY.

T. 13 N., R. 2 E.

Chains. November 4: At 2 p.m. I set off 15°26' S. on the declination arc and 41°48' on the latitude arc and determine a true meridian with the solar, at the standard corner of secs. 31 and 32, which is a limestone 4x10x4 ins. above ground, properly marked; as described by the Gen. Land Office; no stone mound. To further establish this corner I take:

A spruce, 10 ins. diam., bears N. 73°30' W., 137 lks. dist., marked T 13 N R 2 E S 31 B T

No other trees.

Thence I run

N. 0°04' W. between secs. 31 and 32.

Ascending from corner.

.06 Set Boundary Post No. 92, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to standard corner of secs. 31 and 32, marked on cap:

T 13 N S 32 W C on N. E.

S C on N.

R 2 E S 31 on N. W.

No. 92 on S., and

RESERVE on E. sides of top, with 5 notches on E. and 1 notch on W. edges of rim.

14.40 Top of ascent, ridge, 250 ft. above corner, slopes W. Descend steep N. slope through timber and dense undergrowth.

21.50 Drain, course S. 70° W., 150 ft. below top; ascend; leave timber, bears E. and W.

40.00 Set a limestone 18x10x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face; raise a mound of stone $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of corner.

November 4, 1904.

November 5: At 9 a.m. I set off 15°40' S. on the declination arc and 41°49' on the latitude arc and determine a true meridian with the solar.

64.00 Top of ridge, bears E. and W., 600 ft. above drain; thence along W. slope, also enter aspen thicket, bears E. and W.

70.00 Leave thicket, bears E. and W.

78.50 Begin descent, N. slope, through timber, bearing E. and W.

80.00 Set Boundary Post No. 91, which is an iron post, with brass cap, 4 ft. long, 4 ins., diam., 3 ft. in the ground, for corner of secs. 29, 30, 31 and 32, marked on cap:

T 13 N S 29 on N. E.

R 2 E S 32 on S. E.

S 31 on S. W.

S.30 on N. W.

No. 91 on S., and

RESERVE on N. and E. sides of top, with 1 notch on S. and 5 notches on E. edges of rim, from which:

A pine, 16 ins. diam., bears N. 34°45' E., 48 lks. dist., marked T 13 N R 2 E S 29 B T

A pine, 16 ins. diam., bears S. 49°45' E., 170 lks. dist., marked T 13 N R 2 E S 32 B T

A pine, 6 ins. diam., bears S. 19° W., 17 lks. dist., marked T 13 N R 2 E S 31 B T

A pine, 12 ins. diam., bears N. 5° W., 23 lks. dist., marked T 13 N R 2 E S 30 B T

Land, mountainous.

Soil, 4th rate.

Timber, pine and aspen.

Undergrowth, bear brush.

Formation, limestone.

LOGAN FOREST RESERVE BOUNDARY.

T. 13 N., R. 2 E.

Chains. I set off 15°43' S. on the declination arc, and at 11^h48^m 1.m.t., observe the sun on the meridian and obtain a reading of 41°49' on the latitude arc.

West on a random line between secs. 30 and 31.

40.00 Set temporary $\frac{1}{4}$ sec. corner.

81.50 Intersect W. boundary of township 26 lks. S. of corner of secs. 25, 30, 31 and 36, heretofore described.

Thence I run S. 89°48' E. on a true line between secs. 30 and 31. Descending S. E. slope.

9.90 Drain, course S. 70° W. about 75 ft. below corner; ascend over rough broken land, scattering timber.

41.50 Point for $\frac{1}{4}$ sec. corner falls on limestone in place 36x20x12 ins. above ground; at the corner point cut a cross (+) and mark $\frac{1}{4}$ on the N. side; raise a mound of stone 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, north of corner.

74.50 Enter timber (heavy) bears N. W. and S. 80° E.; slope changes to N., thence along same, about 900 ft. above drain.

81.50 Corner of secs. 29, 30, 31 and 32, heretofore described.

Land, mountainous.
Soil, 4th rate.
Timber, spruce,
Formation, limestone.

November 5, 1904.

T. 12 N., R. 2 E.

November 6:

Note: After diligent search I fail to find any trace of closing corner on Third Standard Parallel, or $\frac{1}{4}$ sec. corner between secs. 5 and 6, T. 12 N., R. 2 E.

Therefore at 9 a.m. I set off 15°58' S. on the declination arc and 41°48' on the latitude arc and determine a true meridian with the solar at the corner of secs. 5, 6, 7 and 8, which is a limestone 6x12x8 ins. above ground, marked and witnessed as described by the General Land Office.

Thence I run

N. 0°04' W. between secs. 5 and 6; ascending S. W. slope.

.06

Set ~~an~~ iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to corner of secs. 5, 6, 7 and 8, marked on cap:

T 12 N S 5 W C on N. E.

R 2 E S 8 on S. E.

S 7 on S. W.

S 6 on N. W.

No. 94 on S., and

RESERVE on E. sides of top with 5 notches on S. and E. edges of rim.

14.00 Top of ascent, bears E. and W., 250 ft. above corner, descend N. W. slope.

29.30 Spring drain, 1 lk. wide, course N. 80° W., 250 ft. below top; ascend S. W. slope.

40.00 Set a limestone 24x10x6 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face; raise a mound of rock, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of corner. Cache Enterprise Mine bears S. W. about 100 lks. dist.

40.50 Top of spur slopes S. W. about 250 ft. above drain, gradually descend N. W. slope 50 ft. to

LOGAN FOREST RESERVE BOUNDARY
T. 12 N., R. 2 E.

Chains	
48.50	Drain, course S. W. Ascend 250 ft. on S.E. slope.
60.00	Top of ascent, slopes W.; thence along same.
65.00	Begin descent of N. W. slope, through scattering timber and dense undergrowth.
82.11	Set Boundary Post No. 93, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to closing corner of secs. 5 and 6, marked on cap: R 2 E S 5 W C on S. E. T 12 N S 6 on S. W. C C No. 93 on S., and RESERVE on S. E. sides of top, with 5 notches on E. and 1 on W. edges of rim, from which: A spruce, 8 ins. diam., bears S. E., 72 lks. dist., marked W C T 12 N R 2 E S 5 B T The instrument bearing was not taken to this tree. No other trees within limits.
82.31	Intersect Third Standard Parallel North 0.53 chs. W. of standard corner of secs. 31 and 32, heretofore described. The true point for closing corner falls on shale ledge, therefore set witness corner 20 lks. S. Land, mountainous. Soil, 4th rate. Timber, spruce. Formation, limestone. Drain, course N. W., 10 lks. E. of this corner.
<hr/>	
	I set off $16^{\circ}01'$ S. on the declination arc and at $11^{h}48^{m}$ l.m.t. observe the sun on the meridian and obtain a reading of $41^{\circ}48'$ on the latitude arc at the corner of secs. 5, 6, 7 and 8. Thence I run S. $0^{\circ}04'$ E. on a random line between secs. 7 and 8.
40.00	Find no trace of $\frac{1}{2}$ sec. corner; set temporary.
80.00	Find no trace of corner of secs. 7, 8, 17 and 18; set temporary.
	November 6, 1904. November 7: I set off $16^{\circ}13'$ S. on the declination arc and $41^{\circ}47'$ on the latitude arc and at 8 a.m. determine a true meridian with the solar at the temporary corner to secs. 7, 8, 17 and 18. Thence I run S. $0^{\circ}04'$ E. on a random line between secs. 17 and 18.
40.00	Find no trace of $\frac{1}{2}$ sec. corner.
80.00	Find no trace of corner of secs. 17, 18, 19 and 20, nor any evidence of a survey reported by the Surveyor General to be made this summer. Therefore I go back to the corner of secs. 5, 6, 7 and 8 and make my random a true line south. South $0^{\circ}04'$ E. between secs. 7 and 8. Descending S. W. slope.
2.25	Drain, course N. 70° W., 50 ft. below corner; ascend N. W. slope.
9.20	Top, bears E. and W., about 150 ft. above drain.
10.80	Head of drain, course W.; ascend through timber bearing E. and W.
24.00	Leave timber, bears E. and W.
28.00	Top of ascent 600 ft. above first drain slopes S. 70° W.; descend, sloping S. 60° W.
40.00	Set a limestone $20 \times 16 \times 4$ ins., 15 ins. in ground, for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on W. face; raise a mound of stone $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of corner.
45.50	Drain, course N. 70° W. 150 ft. below top; ascend N. W. slope through timber

LOGAN FOREST RESERVE BOUNDARY.

T. 12 N., R. 2 E.

Chains.

57.50	Top of ascent, slopes N. 70° W. Leave timber, bears E. and W. Descend S. W. slope.
66.00	Drain, course N. 70° W. about 80 ft. below top of ridge; ascend N. W. slope.
78.50	Top of ridge 150 ft. above drain slopes N. 70° W. Descend through scattering timber.
80.00	Set Boundary Post No. 95, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for corner of secs. 7, 8, 17 and 18, marked on cap: T 12 N S 8 on N. E. R 2 E S 17 on S. E. S 18 on S. W. S 7 on N. W. No. 95 on S., and RESERVE on S. and E. sides of top, with 4 notches on S. and 5 notches on E. edges of rim, from which: A cedar, 18 ins. diam., bears N. 50°10' E., 156 lks. dist., marked T 12 N R 2 E S 8 B T A spruce, 14 ins. diam., bears N. 30°30' W., 85 lks. dist., marked T 12 N R 2 E S 7 B T No other suitable trees; raise a mound of stone 3½ ft. base, 1½ ft. high, W. of corner. Land, mountainous. Soil, 4th rate. Timber, spruce, cedar and aspen. Formation, limestone.
40.50	I set off 16°19' S. on the declination arc and at 11 ⁴⁸ ^m 1.m.t. observe the sun on the meridian and obtain a reading of 41°46' on the latitude arc at the corner of secs. 7, 8, 17 and 18. Thence I run West on a random line between secs. 7 and 18. Intersect N. and S. line 70 lks. N. of ½ sec. corner, which is a limestone 4x8x4 ins. above ground, marked and witnessed as described by the Gen. Land Office. To further establish this corner I take: A cedar, 10 ins. diam., bears N. 18 lks. dist., marked ½ S 7 B T A cedar, 7 ins. diam., bears S. 15°30' E., 83 lks. dist., marked ½ S 18 B T Thence I run N. 89°00' E. on a true line between secs. 7 and 18, east half; ascending S. W. slope, through scattering timber. Limestone ledge, 10 ft. high, bears N. and S. Top of ascent, sloping S., about 600 ft. above corner; thence along slope to Corner of secs. 7, 8, 17 and 18, heretofore described. Land, mountainous. Soil, 4th rate. Timber, spruce and scrub cedar. Formation, limestone.
15.50	From the corner of secs. 7, 8, 17 and 18 I run S. 0°04' E. between secs. 17 and 18; descending S. slope through scattering timber.
28.50	Drain, course W., about 300 ft. below top of ridge, ascend N. W. slope through heavy timber.
40.00	Top of ridge, 300 ft. above drain, bears E. and W. Descend S. E. slope; leave timber, bears E. and W. Set a limestone 20x12x4 ins., 15 ins. in the ground, for ½ sec. corner, marked ½ on W. face; raise a

LOGAN FOREST RESERVE BOUNDARY.

T. 12 N., R. 2 E.

Chains. mound of stone, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of corner.
 80.00 Set a limestone $18 \times 10 \times 6$ ins., 12 ins. in the ground for corner of secs. 17, 18, 19 and 20, marked with 3 grooves on S. and 5 grooves on E. faces; raise a mound of stone $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of corner.
 Corner about 600 ft. below top of ridge.
 Land, mountainous.
 Soil, 4th rate.
 Timber, spruce.
 Formation, limestone.

November 7, 1904.

November 8: At 9 a.m. I set off $16^{\circ}33'$ S. on the declination arc and $41^{\circ}46'$ on the latitude arc, and determine a true meridian with the solar at the corner of secs. 17, 18, 19 and 20.

Thence I run

West between secs. 18 and 19; ascending S. E. slope.

4.90 Limestone ledge, 40 ft. high, bears N. and S.; thence along rough broken slope, through scrub cedar.

18.50 Side hill drain, course S.

40.00 Set Boundary Post No. 98, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for $\frac{1}{4}$ sec. corner, marked:

 $\frac{1}{4}$ S 18 on N. $\frac{1}{4}$ S 19 on S.

No. 98 on S., and

RESERVE on S. and E. sides of top, from which:

A cedar, 5 ins. diam., bears N. $67^{\circ}15'$ E., 32lks. dist., marked $\frac{1}{4}$ S 18 B TA cedar, 7 ins. diam., bears S. 65° E., 65lks. dist., marked $\frac{1}{4}$ S 19 B T

42.50 Side hill drain, course S. Ascend.

52.00 Limestone ledge, 30 ft. high, bears N. and S. Top of ascent, about 125 ft. above drain; descend W. slope.

65.00 Slope, changes to N. W.

79.20 Intersect W. boundary of township 410 lks. N. 15° W. of corner of secs. 17, 18, 19 and 24, heretofore described, at which point

Set Boundary Post No. 99, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for closing corner of secs. 18 and 19, marked on cap:

T 12 N S 18 on N. E.

R 2 E S 19 on S. E.

C C on E.

No. 99 on S., and

RESERVE on S. E. sides of top, with 3 notches on N. and S. edges of rim, from which:

A cedar, 12 ins. diam., bears N. $60^{\circ}50'$ E., 78

lks. dist., marked C C T 12 N R 2 E S 18

B T

No other suitable trees.

Destroy all markings on Post No. 1 relating to R.2.

Land, mountainous.

Soil, 4th rate.

Timber, scrub cedar.

Formation, limestone.

I set off $16^{\circ}36'$ S. on the declination arc and at 11^h48^m l.m.t. observe the sun on the meridian and obtain a reading of $41^{\circ}46'$ on the latitude arc at the $\frac{1}{4}$ corner on the south boundary of sec. 18

LOGAN FOREST RESERVE BOUNDARY.

T. 12 N., R. 2 E.

Chains.	Thence I run
	North on a random line through sec. 18 from $\frac{1}{4}$ sec. corner between secs. 18 and 19, heretofore described.
40.00	Set temporary $\frac{1}{2}$ mile corner.
79.98	Intersect N. boundary sec. 18 10 lks. W. of $\frac{1}{4}$ sec. corner, heretofore described.
	Thence I run
	S. $0^{\circ}04'$ W. on a true line through sec. 18. Descending through scattering cedar.
.06	Set Boundary Post No. 96, which is an iron post, with brass cap, 4 ft. long, 4 ins. diam., 3 ft. in the ground, for witness corner to $\frac{1}{4}$ sec. corner, marked on cap: $\frac{1}{2}$ S 7 on N. W C on N. E. $\frac{1}{4}$ S 18 on S. No. 96 on S., and RESERVE on S. E. sides of top.
4.50	Drain, course N. 80° W., 125 ft. below corner; ascend N. W. slope.
23.00	Top of spur, slopes N. W., 300 ft. above drain. Descend S. W. slope. Leave timber, bears E. and W.
39.99	Set Boundary Post No. 97, which is an iron post, with brass cap, 4 ft. long, 4 in. diam., 3 ft. in mound of stone, for forest reserve boundary line post, marked on cap: No. 97 on S., and RESERVE on E. sides of top.
40.10	Drain, course N. W. about 100 ft. below top; ascend.
49.50	Top of ascent, 125 ft. above drain, slopes N. W.; thence along broken W. slope.
61.00	Descend 450 ft. on S. slope, through scrub cedar to
79.98	$\frac{1}{4}$ sec. corner heretofore described. Land, mountainous. Soil, 4th rate. Timber, spruce and scrub cedar. Formation, limestone.

November 8, 1904,
F. E. Joy,
U. S. Surveyor.

FINAL OATHS OF ~~DEPUTY~~ SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by F. E. Joy
 _____, United States ~~Deputy~~ Surveyor, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of _____
Logan Forest Reserve Boundary

 showing the respective capacities in which they acted:

D. D. Toncray, _____, L. B. Cole _____, Chainman.
Geo. M. Anderson, _____, Peter Anderson _____, Chainman.
James L. Linville _____, Moundman.
 _____, Moundman.
L. B. Cole _____, Axman.
 _____, Axman.
P. A. Taylor _____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted F. E. Joy
 _____, United States ~~Deputy~~ Surveyor, in surveying all
 those parts or portions of the Logan Forest Reserve Boundary,

 _____ of the Salt Lake
Base and _____ meridian, _____ State _____ of _____ Utah _____, which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
General for Director, U. S. Geological Survey.

D. D. Toncray, _____, L. B. Cole _____, Chainman.
Geo. M. Anderson, _____, Peter Anderson _____, Chainman.
James L. Linville _____, Moundman.
 _____, Moundman.
L. B. Cole _____, Axman.
 _____, Axman.
P. A. Taylor _____, Flagman.

Subscribed and sworn to before me this 12 }
 day of November, 1904. }

F. E. Joy,



U. S. Surveyor.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, F. E. Joy, United States Deputy Surveyor, do solemnly swear that, in pursuance of ^{orders} ~~contract~~ received from Director, U. S. Geological Survey, bearing date of the 16 day of June, 1904, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the ^{Director} ~~United States Surveyor General for~~ Geological Survey, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Logan Forest Reserve Boundary, Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the ^{Director} ~~United States Surveyor General for~~ Geological Survey, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

F. E. Joy
United States Deputy Surveyor

Subscribed by said F. E. Joy, and sworn to before me }
this 17 day of November, 1904
22 " July 1905

SEAL

J. W. Larsen, Clerk of the District Court of the First Judicial District of the State of Utah, County of Cache; and

APPROVAL Jacob Coleman, Clerk Dist. Co. Nephi, Juab Co., Utah.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL
OFFICE OF THE DIRECTOR UNITED STATES GEOLOGICAL SURVEY.

JUN 12 1906 190

The foregoing field notes of the survey of Logan Forest Reserve Boundary,

executed by F. E. Joy, under his ~~contract~~ ^{orders}, dated June 16, 1904, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Chas. Walcott
United States Surveyor General
Director U. S. Geological Survey.

I certify that the foregoing transcript of the field notes of the above-described surveys in State of Utah, has been correctly copied from the original notes on file in this office.

Chas. Walcott
United States Surveyor General
Director U. S. Geological Survey.